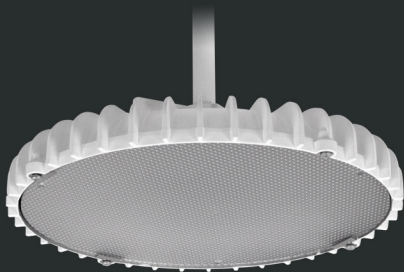




LED Lighting Systems for Retail Facilities

Total Package: Long Lasting, Highly-Efficient Luminaires



Fairbanks



Denali



Yukon



Hockey Puck



Anchorage



Clark Medium

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Multi-Purpose LED Luminaires; Indoor/Outdoor; Surface or Pendant



ARRA
Compliant

FIXTURE	Nominal LED Wattage				
	40W	50W	60W	75W	100W
Anchorage		✓		✓	
CM1616S	✓		✓		✓
Clark-Med		✓		✓	
Delmar	✓	✓	✓	✓	✓
Denali		✓	✓	✓	✓
Fairbanks		✓	✓	✓	✓
HP					✓
LG	✓	✓	✓	✓	
LV-XL			✓		✓
Yukon		✓	✓	✓	✓

FIXTURES

- AC = Anchorage Series
- CM1616S = CM1616S Recessed Shallow
- CK-M = Clark Medium Series
- DM = Delmar Series
- DN = Denali Series
- FB = Fairbanks Series
- HP = Hockey Puck Series
- LG = Linear Garage Series
- LV-XL = Liverpool XL Indirect Series
- YK = Yukon Series

OPTIONS

- RMB = Rapid Mount Galvanized "J" Box
- SWL = Swivel (LG Series Only)
- PEND1 = Pendant Mount (Single Pendant)
- PEND2 = Pendant Mount (Dual Pendant —available for LG only)
- CPR = Clear Prismatic Diffuser (Clark Series)

LED OPTIONS FOR ALL SERIES

- BL = Dual Circuit Bi-Level Lighting, Switched High/Low
- D7 = 0-10V low-voltage dimming (100-30% Standard)
- D8 = LED Dimming: Forward Phase/Leading Edge (Triac)
- D9 = LED Reverse Phase/Trailing Edge ELV
- D11 = DALI LED Dimming Driver
- D12 = Lutron LED Dimming Driver
- D13 = LED Step Dimming
- MSE = Motion Sensor External; Single circuit, all on, all off. Specify Finish: White (WH) or Bronze (BZ)
- MSE2 = Motion Sensor External; Dual circuit, half on half off. Specify Finish: White (WH) or Bronze (BZ)
- MSI = Motion Sensor Integral —Single circuit-all on, all off
- MSI2 = Motion Sensor Integral —Dual circuit, half on half off
- MSI3 = Integral Tri-Level Daylight Motion Sensor. MSI3 Offers 3 levels of light: 100% > dimmed light (10%, 20%, 30%, 50% optional) > off; And 2 periods of selectable waiting time: Motion hold-time and stand-by period; selectable daylight threshold and freedom of detection area.
- SG = 10KA Surge Protection for LED fixtures (meets ANSI spec C62.41.2)

COLOR TEMPERATURE

- 3K = ±3000K range (120 Initial LPW)
- 4K = ±4000K range (125 Initial LPW)
- 5K = ±5000K range (140 Initial LPW)

EMERGENCY OPTIONS

No onsite Emergency Power (AC or DC) is provided

Specify Fixture Voltage: 120V or 277V Power Feed; A=120V or B=277V

Remote LED Emergency Battery

- REL61 = LED 12W, ± 720 Lms (lota)
- REL63 = LED 23W, ± 1290 Lms (Bodine)
- REL67 = Cold Weather; LED 23W, ± 1290 Lms (by lota)
- REL82 = LED 4W (Fulham)
- REL85 = LED 20W (Fulham)
- REL88 = LED 16W (Fulham)

FINISHES

- BZ = Bronze
- BK = Black
- WH = White
- PNA = Painted Natural Aluminum
- CC = Custom Color

COMPLIANCE

Built to comply with U.S. and Canadian safety standards. Suitable for indoor/outdoor wet locations. IP67 Tested and Rated.



CM1616S



Delmar



Liverpool XL Indirect



LG

Test # 102063649CHI-013 Denali

DN-LED60-5K-EBU-WH-PEND12-SWC

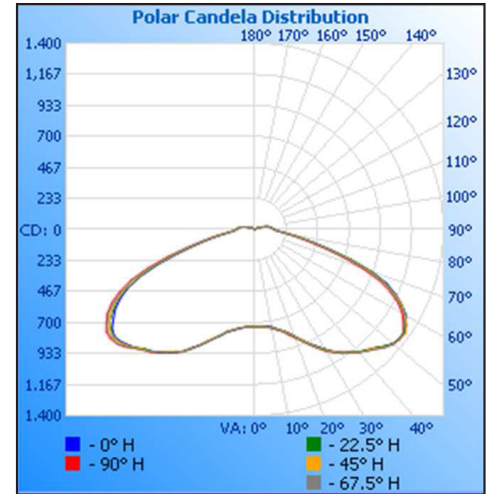
Test Date: 01/14/2016 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Electrical Test Conditions				
Temp	Voltage	Current	Power	Power Factor
25°C (±1°C)	120.0	478.4	57.12	0.995

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	744.3	12.9
0-40	1455	25.2
0-60	3619	62.8
60-90	1870	32.4
0-90	5490	95.2
90-180	276.2	4.8
0-180	5766	100.0

Summary of Results	
Total Lumen Output	5766
Efficacy (Lm/W)	100.9

Cone of Light Tabulation		
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
182.3	10.0	8.6
45.6	20.2	17.3
20.3	30.3	25.9
11.4	40.4	34.5
7.3	50.6	43.2



Test # 102063649CHI-017 Fairbanks

FB-100W-5K-EBU-WH

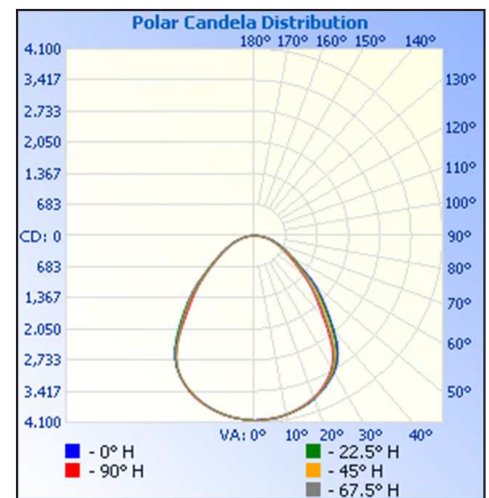
Test Date: 01/14/2016 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Electrical Test Conditions				
Temp	Voltage	Current	Power	Power Factor
25°C (±1°C)	120.0	806.5	96.45	0.997

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	3146	35.6
0-40	5007	56.7
0-60	7621	86.3
60-90	1211	13.7
0-90	8833	100.0
90-180	0.5	0.0
0-180	8833	100.0

Summary of Results	
Total Lumen Output	8833
Efficacy (Lm/W)	91.58

Cone of Light Tabulation			
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)	
2.0	1,014.4	4.1	3.8
4.0	253.6	8.3	7.5
6.0	112.7	12.4	11.3
8.0	63.4	16.5	15.0
10.0	40.6	20.7	18.8



Test # 102063649CHI-018 Yukon

YK-100W-5K-EBU-WH

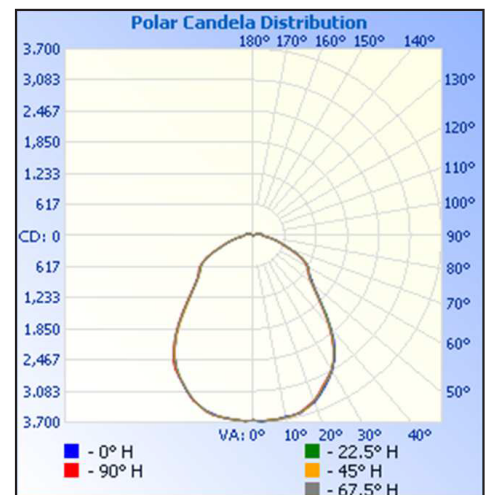
Test Date: 01/14/2016 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Electrical Test Conditions				
Temp	Voltage	Current	Power	Power Factor
25°C (±1°C)	120.0	807.0	96.53	0.996

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	2870	30.1
0-40	4565	47.9
0-60	7191	75.5
60-90	1859	19.5
0-90	9050	95.0
90-180	478.8	5.0
0-180	9529	100.0

Summary of Results	
Total Lumen Output	9529
Efficacy (Lm/W)	98.72

Cone of Light Tabulation		
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
2.0	914.3	4.0
4.0	228.6	8.0
6.0	101.6	12.0
8.0	57.1	16.0
10.0	36.6	20.0

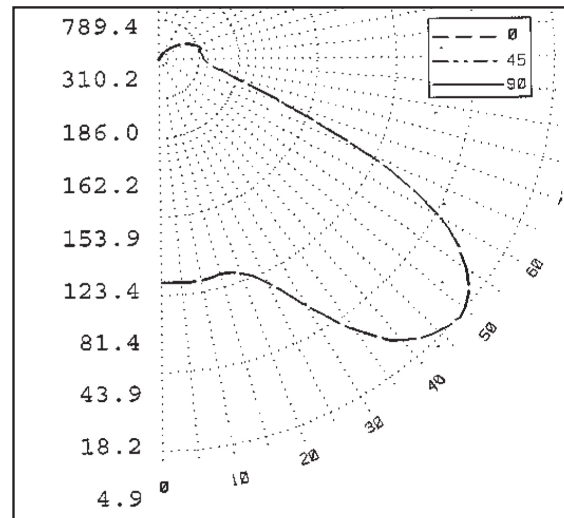


Test # BALLABS 19016.0 Delmar

DM-LED53-5K-LDIM-WH-RMB

Test Date: 08/06/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Electrical Characteristics	120.0V	.4437A	52.859W
Luminous Efficacy (Lumens/Watts)	104.1		



Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	691	12.6
0-40	1419	25.8
0-60	3628	65.9
0-90	4913	89.3
90-120	439	8.0
90-130	521	9.5
90-150	583	10.6
90-180	588	10.7
0-180	5501	100.0

Test # 102063649CHI-016 Clark Medium

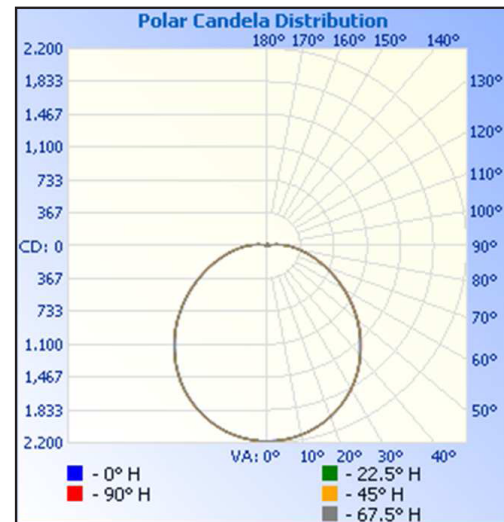
CK-M-LED75-4K-EBU-WH-PEND12-RMB

Test Date: 10/06/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Summary of Results / Electrical Test Conditions						
Total Lumen Output	Efficacy (Lm/W)	Temp	Voltage	Current	Power	Power Factor
6896	94.48	25°C (±1°C)	119.9	611.7	72.99	0.995

Cone of Light Tabulation			
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)	
		6.0	6.1
2.0	544.8	6.0	6.1
4.0	136.2	12.0	12.2
6.0	60.5	18.1	18.3
8.0	34.1	24.1	24.3
10.0	21.8	30.1	30.4

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	1694	24.6
0-40	2774	40.2
0-60	4912	71.2
60-90	1746	25.3
0-90	6659	96.6
90-180	237.1	3.4
0-180	6896	100.0



Test # 102063649CHI-013 Denali

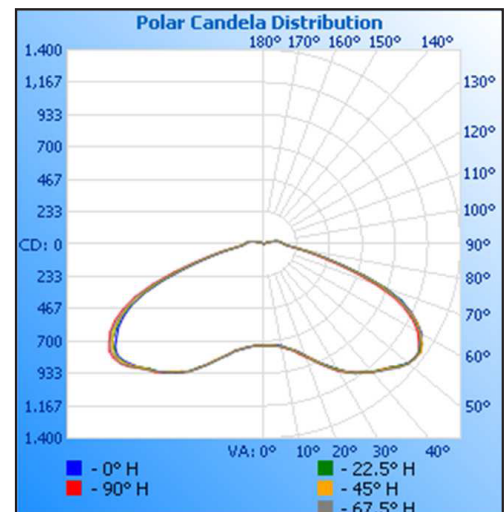
DN-LED60-5K-EBU-WH-PEND12-SWC

Test Date: 09/25/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Summary of Results / Electrical Test Conditions						
Total Lumen Output	Efficacy (Lm/W)	Temp	Voltage	Current	Power	Power Factor
5766	100.9	25°C (±1°C)	120.0	478.4	57.12	0.995

Cone of Light Tabulation			
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)	
		10.0	8.6
2.0	182.3	10.0	8.6
4.0	45.6	20.2	17.3
6.0	20.3	30.3	25.9
8.0	11.4	40.4	34.5
10.0	7.3	50.6	43.2

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	744.3	12.9
0-40	1455	25.2
0-60	3619	62.8
60-90	1870	32.4
0-90	5490	95.2
90-180	276.2	4.8
0-180	5766	100.0



Test # 102063649CHI-004 LG

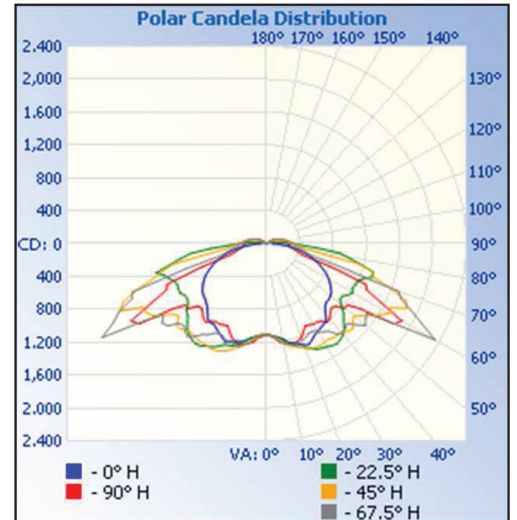
LG-LED80-5K-EBU-WH-D7

Test Date: 03/31/2015 (REV.04/06/2015) — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Summary of Results / Electrical Test Conditions						
Total Lumen Output	Efficacy (Lm/W)	Temp	Voltage	Current	Power	Power Factor
7676	75.65	25°C (±1°C)	120 / 277	670.6	80.12	0.996 / 0.937

Cone of Light Tabulation			
Mounting Height (Ft)	Center Beam (Fc)	Beam Width (Ft)	
2.00	276.1	7.3	9.1
4.00	69.0	14.5	18.3
6.00	30.7	21.8	27.4
8.00	17.3	29.1	36.5
10.00	11.0	36.3	45.7

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	1079	14.1
0-40	1926	25.2
0-60	4208	55.0
60-90	2938	38.4
0-90	7146	93.4
90-180	504.0	6.6
0-180	7650	100.0



Test # 19015.0 Hockey Puck

HP-160W-4K-(2)EBU-WH-PEND24-D7

Test Date: 08/10/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

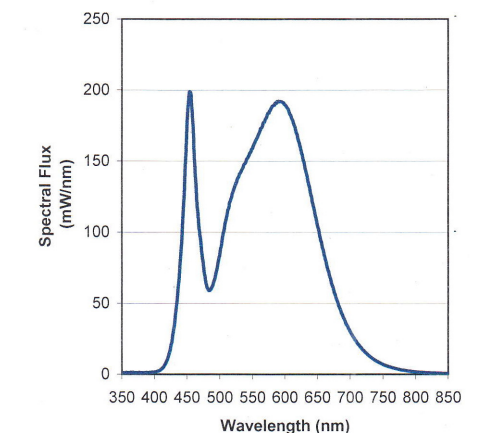
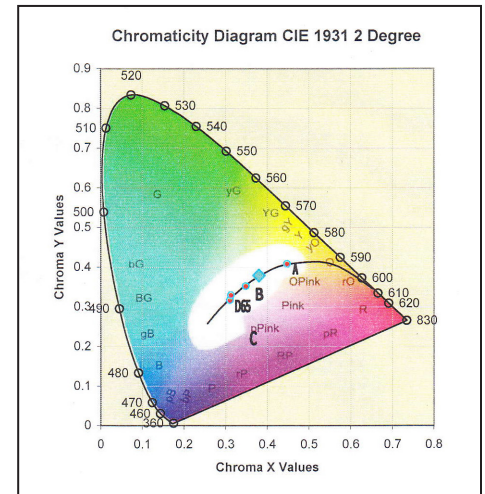
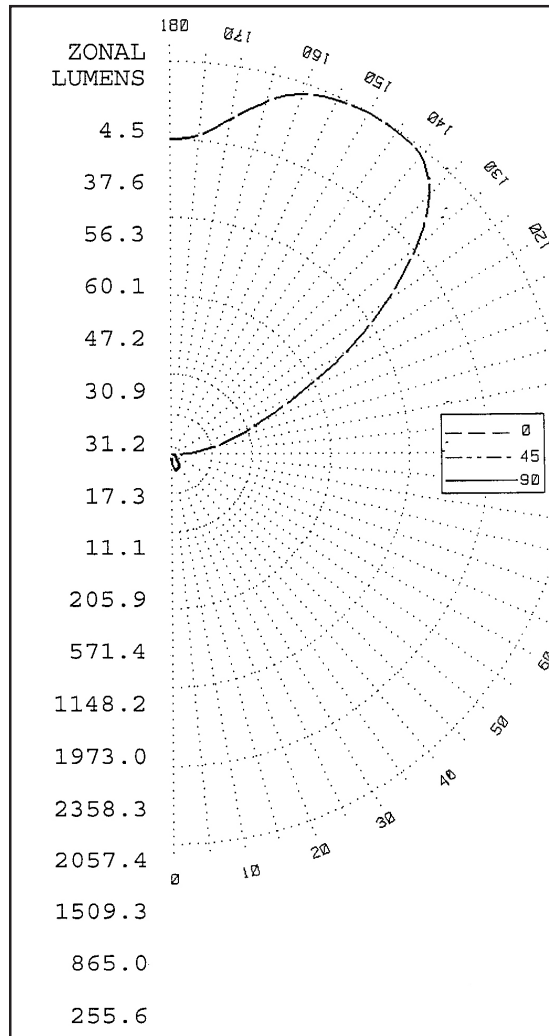
Tested in accordance with LM-79-80
The results contained in this summary report pertain only to the tested sample

Electrical Characteristics	120.0V	1.4125A	168.91W
Luminous Efficacy (Lumens/Watts)	66.5		

Summary of Results	
Total Lumen Output	11240
Efficacy (Lm/W)	66.5
CRI	82.93
CCT	4022K
Duv	0.0002

Zonal Lumen Summary		
Zone	Lumens	%Luminaire
0-30	98	.9
0-40	159	1.4
0-60	237	2.1
0-90	296	2.6
90-120	1925	17.1
90-130	3899	34.7
90-150	8314	74.0
90-180	10944	97.4
0-180	11240	100.0

Chromaticity Coordinates	
Chromaticity (x)	0.3800
Chromaticity (y)	0.3785
Chromaticity (u)	0.2241
Chromaticity (v)	0.3349



Test # 18923.0 Liverpool XL

LV-XL-LED120-3K-(2)EBU-WH-D7

Test Date: 06/23/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample

Tested in accordance with LM-79-80
The results contained in this summary report pertain only to the tested sample

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2297	32.6
0-40	3779	53.6
0-60	6316	89.7
0-90	7044	100.0
0-180	7044	100.0

