

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: G2-2103-196-1

Luminaire Tested: **CLCS15**

Test Date: 7/1/2021

Test Information

Test Method: LM-79-08
Report Number: G2-2103-196-1
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 7/1/2021
Issue Date: 7/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CLCS15
Description: FIXED CCT CANOPY, 36W, 4000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4966.4 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 0.83' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U2 - G1

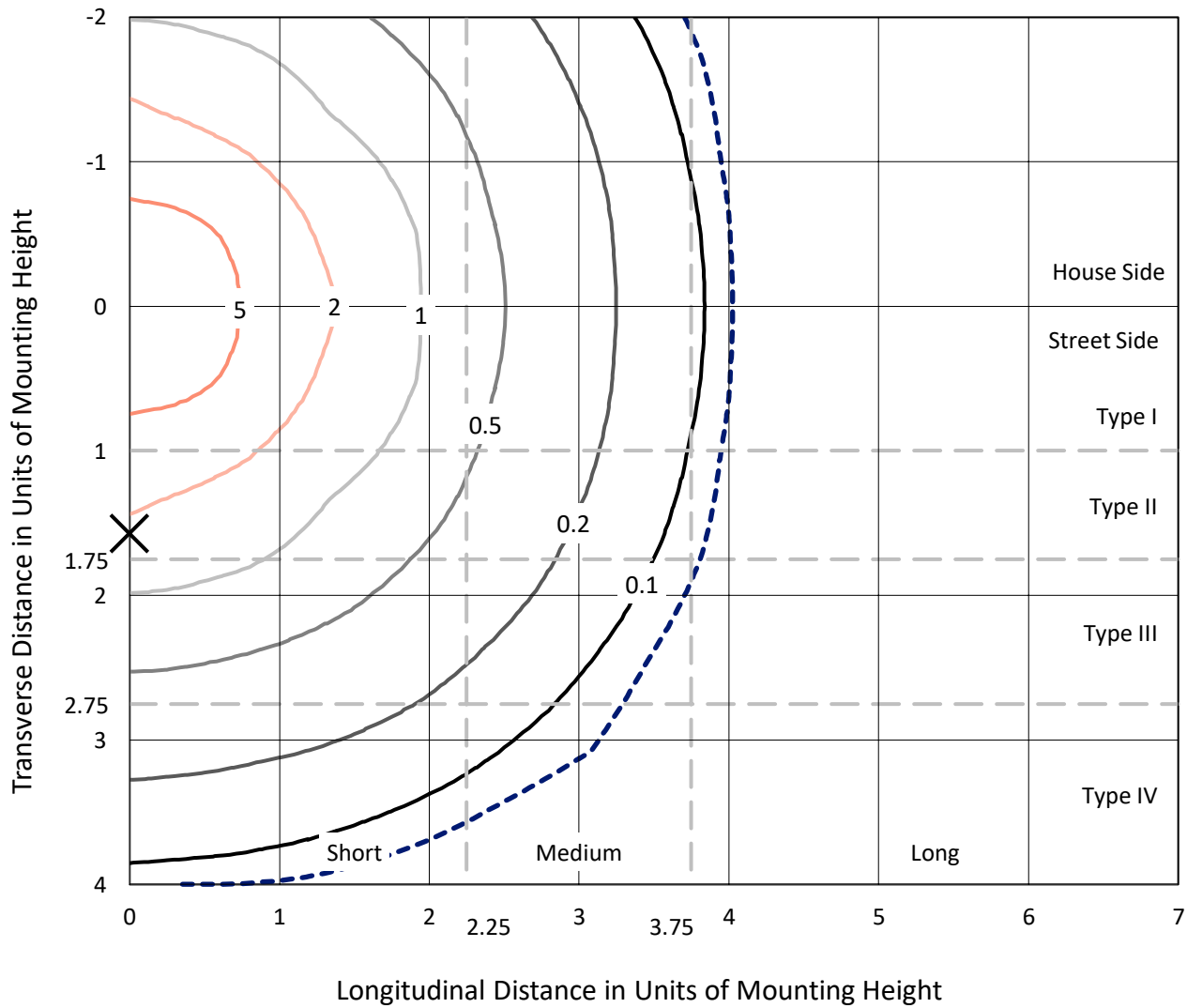
Input Watts (W): 35.1
Input Voltage (V): 120.0
Input Current (A_{in}): 0.295
Voltage Rise (V): NR
Power Factor: 0.9916
Total Harmonic Distortion (THDi): 9.67%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.5
Test Distance: 24 FT



REPORT NUMBER: G2-2103-196-1
 CATALOG NUMBER: CLCS15

Iso-Footcandle Lines of Horizontal Illumination

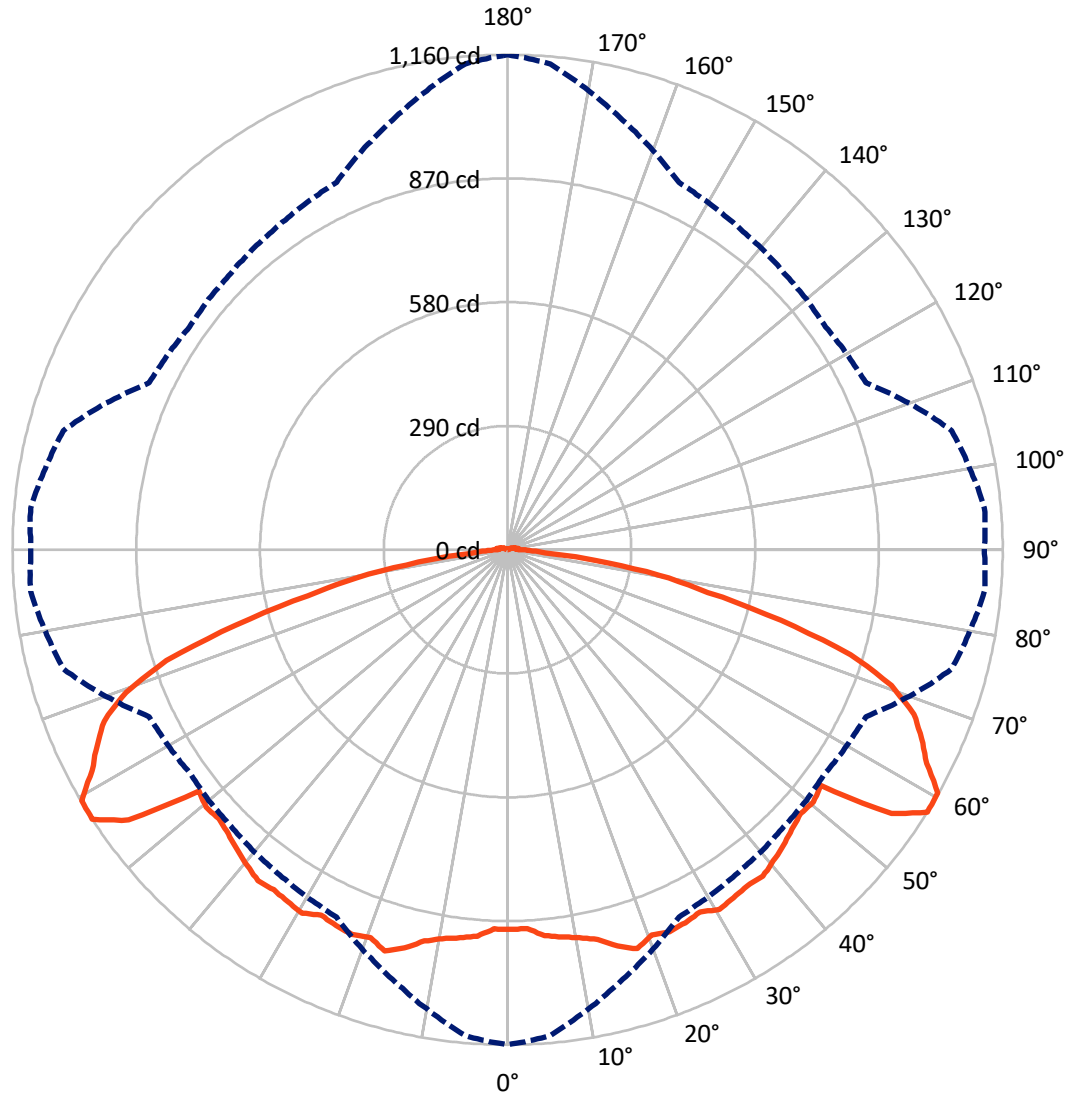
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

REPORT NUMBER: G2-2103-196-1
CATALOG NUMBER: CLCS15

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: G2-2103-196-1
 CATALOG NUMBER: CLCS15

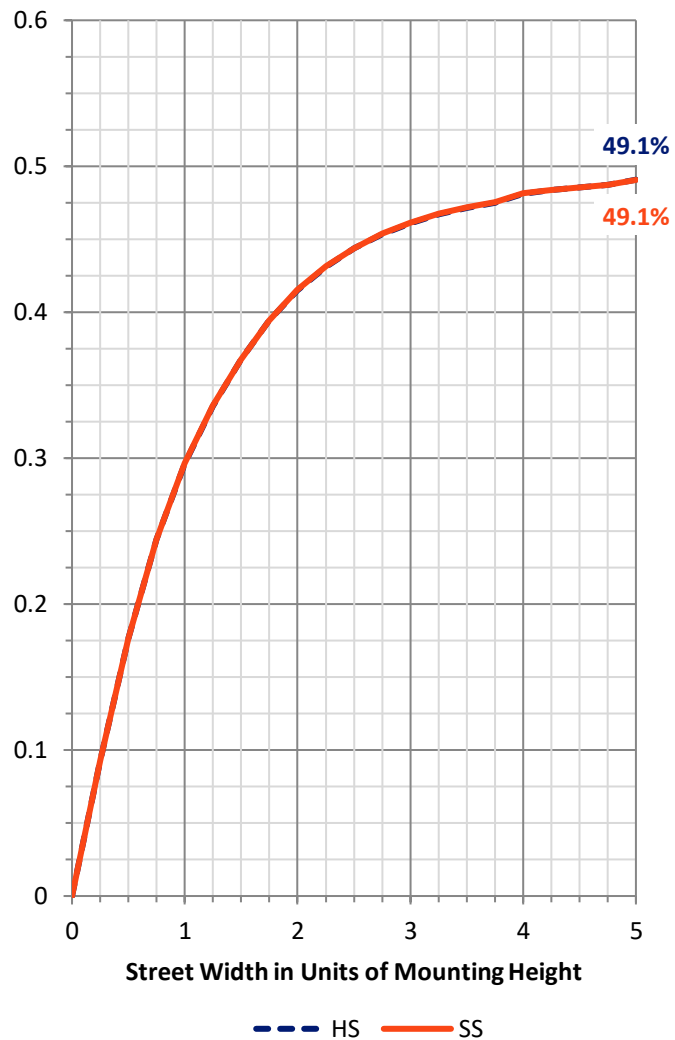
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2462.9	20.3	2483.2
	% Fixture	49.6	0.4	50.0
Street Side	Lumens	2462.9	20.3	2483.2
	% Fixture	49.6	0.4	50.0
Total	Lumens	4925.8	40.6	4966.4
	% Fixture	99.2	0.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.7
10°-20°	269.8	5.4
20°-30°	453.7	9.1
30°-40°	615.0	12.4
40°-50°	729.5	14.7
50°-60°	857.3	17.3
60°-70°	1030.6	20.8
70°-80°	720.0	14.5
80°-90°	163.1	3.3
90°-100°	21.6	0.4
100°-110°	13.4	0.3
110°-120°	5.0	0.1
120°-130°	0.7	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4925.8	99.2
0°-180°	4966.4	100.0

Coefficient of Utilization

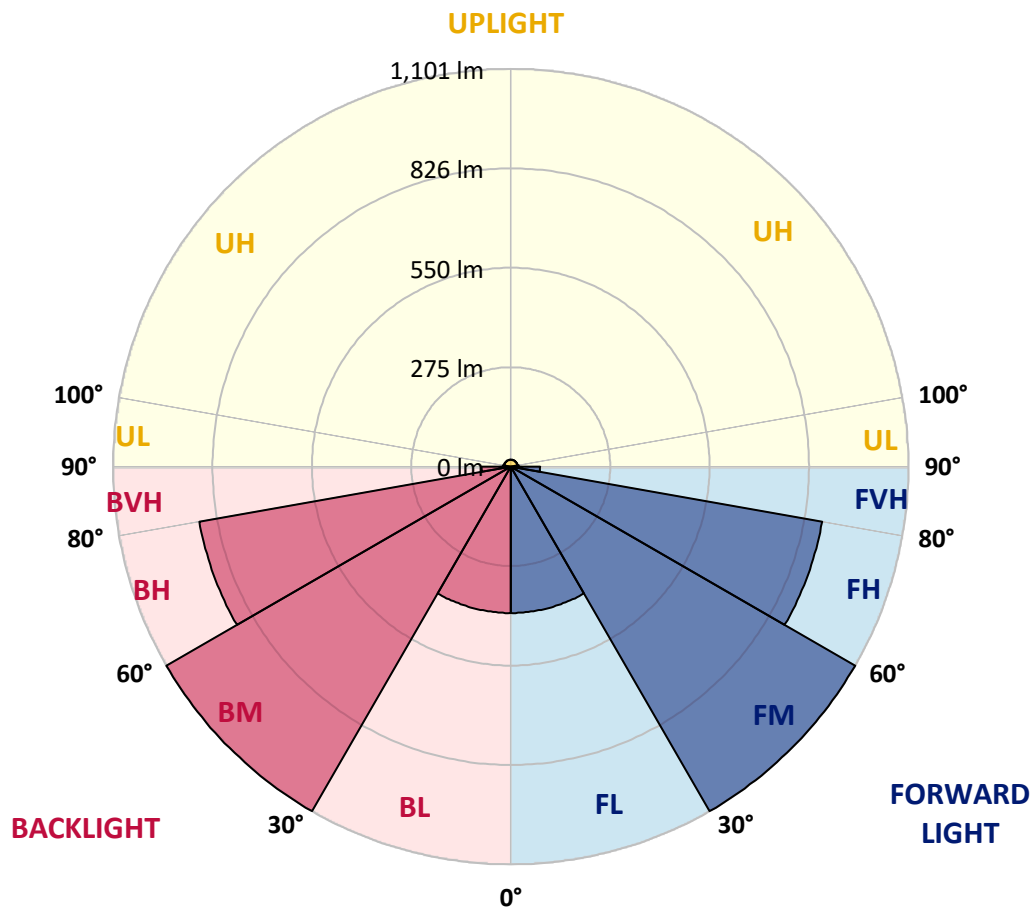


REPORT NUMBER: G2-2103-196-1
 CATALOG NUMBER: CLCS15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.1	8.2			
FM (30°-60°)	1100.9	22.2			
FH (60°-80°)	875.3	17.6			G1/1800
FVH (80°-90°)	81.6	1.6			G1/100
BL (0°-30°)	405.1	8.2	B1/500		
BM (30°-60°)	1100.9	22.2	B2/2500		
BH (60°-80°)	875.3	17.6	B2/1000		G1/1800
BVH (80°-90°)	81.6	1.6			G1/100
UL (90°-100°)	21.6	0.4		U2/50	
UH (100°-180°)	19.1	0.4		U2/50	

BUG Rating: B2-U2-G1
 Type V Short





REPORT NUMBER: G2-2103-196-1
 CATALOG NUMBER: CLCS15

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	889	889	889	889	889	889	889	889	889	889	889
2.5°	889	888	887	888	888	885	884	880	883	882	881
5°	908	907	904	902	901	900	903	900	905	906	906
7.5°	916	916	916	915	914	915	919	913	920	923	922
10°	924	923	920	923	923	921	923	917	921	914	912
12.5°	937	934	926	934	935	924	928	928	932	934	934
15°	963	955	944	954	944	931	945	953	954	954	954
17.5°	983	968	958	985	960	960	971	973	973	966	960
20°	964	950	973	979	985	973	984	990	967	959	957
22.5°	972	950	976	956	1007	996	997	967	959	963	963
25°	968	950	980	964	995	1011	995	970	967	968	967
27.5°	961	953	965	982	996	1032	994	976	980	969	963
30°	978	969	978	999	1002	1008	1010	985	984	983	964
32.5°	972	974	972	982	1028	1003	1001	986	1018	1003	977
35°	967	934	955	985	999	1006	986	1019	965	958	960
37.5°	971	941	944	951	983	1015	995	970	940	955	946
40°	959	930	945	949	977	974	1026	934	965	977	966
42.5°	947	941	947	946	972	978	957	962	969	953	940
45°	934	910	936	946	931	971	928	960	929	909	905
47.5°	924	902	918	937	948	969	940	927	915	934	950
50°	929	931	918	901	912	903	941	900	932	949	953
52.5°	918	907	919	891	902	888	896	920	912	916	914
55°	1091	1048	933	895	900	897	884	909	913	996	1014
57.5°	1160	1143	1042	949	930	917	910	926	1078	1122	1117
60°	1158	1153	1080	1045	954	930	935	1056	1073	1062	1064
62.5°	1102	1097	1074	1083	1034	978	1025	1062	1103	1046	1043
65°	1066	1063	1049	1069	1088	1054	1080	1066	1048	1037	1022
67.5°	1027	1031	1011	1040	1059	1046	1074	1030	986	1001	1000
70°	954	950	963	988	1029	1032	1007	967	946	941	944
72.5°	840	828	825	876	909	908	914	876	845	809	811
75°	661	651	668	699	745	738	734	705	662	649	649
77.5°	480	473	500	504	502	546	509	508	492	486	483
80°	360	353	359	354	356	355	359	354	363	359	358
82.5°	210	203	224	249	267	248	268	250	231	208	210
85°	89	88	99	113	117	114	122	120	106	93	94
87.5°	51	51	56	61	61	56	64	63	59	57	58
90°	28	28	31	31	31	28	31	33	33	33	33
92.5°	21	21	21	20	17	15	17	20	21	21	20
95°	19	20	19	18	15	14	15	16	18	18	18
97.5°	26	25	22	18	16	14	16	18	20	22	22
100°	18	18	18	18	16	13	16	17	17	17	17
102.5°	18	18	18	16	12	9	11	15	16	17	17
105°	14	14	13	12	10	7	10	12	13	13	13
107.5°	14	14	14	12	8	6	7	11	14	14	13
110°	14	14	13	9	6	5	6	8	12	14	13



REPORT NUMBER: G2-2103-196-1
 CATALOG NUMBER: CLCS15

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	10	10	8	5	4	4	4	5	7	9	9
115°	6	6	6	4	3	3	3	4	5	6	6
117.5°	5	5	4	3	2	1	2	3	4	5	5
120°	4	4	3	3	1	0	1	2	3	3	3
122.5°	4	4	3	1	0	0	0	1	2	3	3
125°	1	1	1	0	0	0	0	0	1	1	1
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)