

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: CORELITE

Report Number: P383963

Luminaire Tested: **22ID-45-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-45-L835-CFR2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

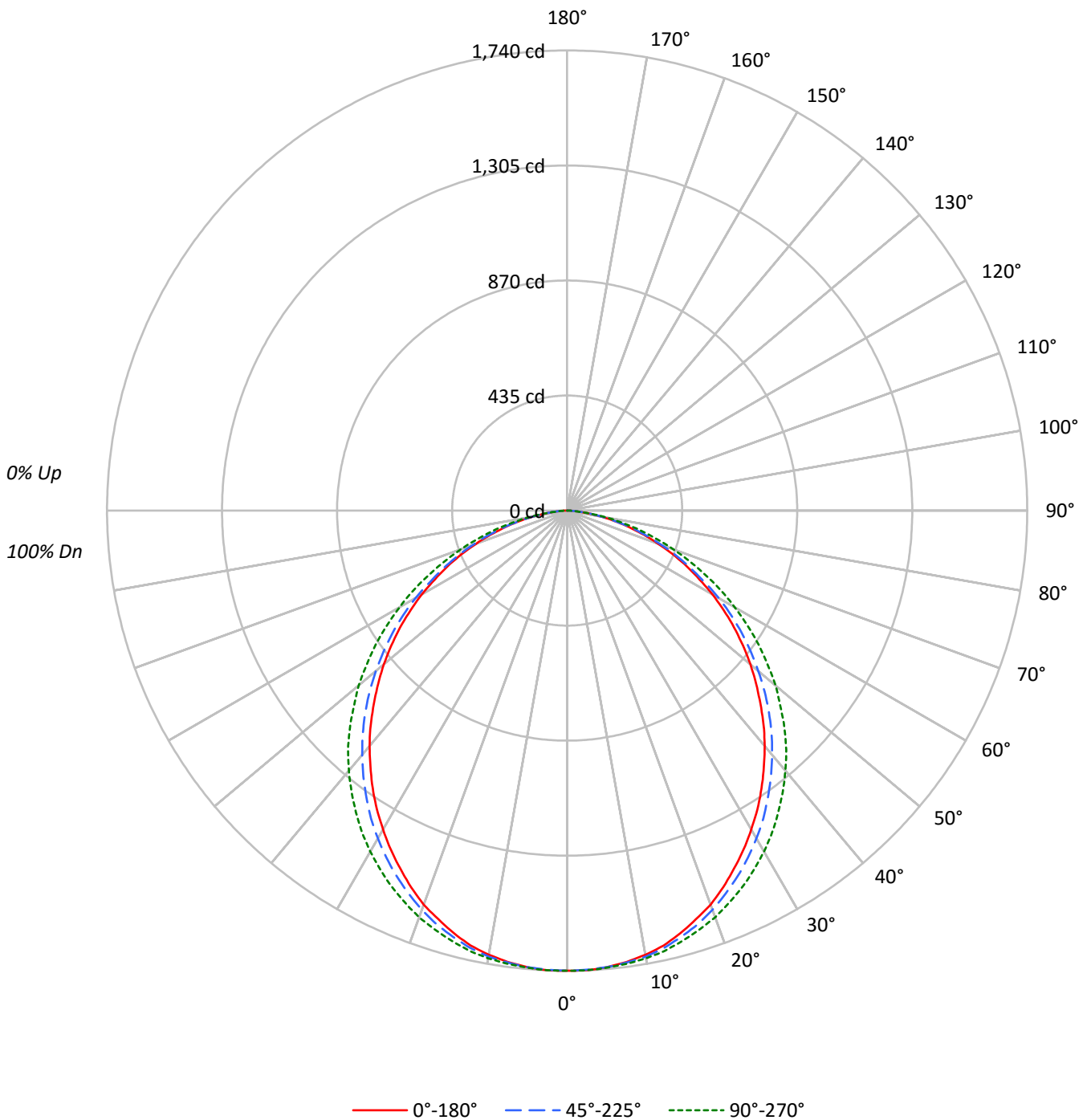
Lumens per Lamp: N/A
Luminaire Lumens: 4592.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31																												
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4682	4682	4682
5°	4681	4681	4687
10°	4660	4679	4697
15°	4610	4648	4693
20°	4541	4600	4686
25°	4435	4530	4660
30°	4326	4448	4627
35°	4211	4347	4574
40°	4083	4236	4511
45°	3932	4107	4423
50°	3786	3950	4307
55°	3617	3779	4146
60°	3419	3567	3939
65°	3180	3282	3678
70°	2879	2987	3367
75°	2512	2608	2943
80°	2033	2069	2318
85°	1207	1349	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	3.6
10°-20°	470.8	10.2
20°-30°	704.2	15.3
30°-40°	832.0	18.1
40°-50°	839.5	18.3
50°-60°	729.1	15.9
60°-70°	522.8	11.4
70°-80°	272.3	5.9
80°-90°	57.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	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°-30°	1339.6	29.2
0°-40°	2171.6	47.3
0°-60°	3740.2	81.4
0°-90°	4592.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1733	1731	1733	1733	1735	165
15°	1655	1657	1668	1680	1685	466
25°	1494	1503	1526	1556	1570	688
35°	1282	1291	1323	1372	1392	801
45°	1033	1045	1079	1135	1162	798
55°	771	778	806	858	884	689
65°	499	497	516	555	578	494
75°	242	239	251	269	283	258
85°	39	44	44	39	37	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739.8	1739.8	1739.8	1739.8	1739.8
2.5°	1739.8	1737.5	1737.5	1737.5	1739.8
5°	1732.9	1730.6	1732.9	1732.9	1735.2
7.5°	1721.4	1719.1	1723.7	1726.0	1728.3
10°	1705.3	1705.3	1712.2	1716.8	1719.1
12.5°	1684.6	1684.6	1693.8	1700.7	1705.3
15°	1654.7	1657.0	1668.5	1680.0	1684.6
17.5°	1620.1	1627.0	1640.9	1657.0	1661.6
20°	1585.6	1590.2	1606.3	1627.0	1636.3
22.5°	1541.9	1548.8	1567.2	1594.8	1604.0
25°	1493.6	1502.8	1525.8	1555.7	1569.5
27.5°	1445.2	1452.1	1479.8	1514.3	1530.4
30°	1392.3	1401.5	1431.4	1470.6	1489.0
32.5°	1339.4	1346.3	1380.8	1422.2	1442.9
35°	1281.8	1291.1	1323.3	1371.6	1392.3
37.5°	1222.0	1233.5	1265.7	1316.4	1339.4
40°	1162.2	1169.1	1205.9	1256.5	1284.1
42.5°	1100.0	1109.2	1143.8	1199.0	1226.6
45°	1033.3	1044.8	1079.3	1134.6	1162.2
47.5°	968.9	980.4	1012.6	1067.8	1093.1
50°	904.4	911.3	943.5	998.8	1028.7
52.5°	837.7	844.6	874.5	927.4	955.1
55°	770.9	777.9	805.5	858.4	883.7
57.5°	701.9	706.5	734.1	782.5	807.8
60°	635.2	637.5	662.8	706.5	731.8
62.5°	563.8	566.1	584.5	635.2	658.2
65°	499.4	497.1	515.5	554.6	577.6
67.5°	432.7	432.7	448.8	483.3	501.7
70°	365.9	365.9	379.7	409.6	428.0
72.5°	303.8	303.8	315.3	338.3	352.1
75°	241.6	239.3	250.8	269.3	283.1
77.5°	184.1	184.1	188.7	204.8	214.0
80°	131.2	131.2	133.5	142.7	149.6
82.5°	82.8	82.8	82.8	87.5	89.8
85°	39.1	43.7	43.7	39.1	36.8
87.5°	18.4	18.4	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.34	17.94	16.70	18.26	18.57	17.10	18.70	17.46	19.02	19.33
	3H	17.93	19.38	18.31	19.70	20.06	18.75	20.20	19.13	20.52	20.88
	4H	18.47	19.83	18.87	20.18	20.55	19.31	20.68	19.71	21.02	21.40
	6H	18.82	20.08	19.23	20.44	20.83	19.67	20.93	20.08	21.30	21.69
	8H	18.90	20.10	19.33	20.49	20.89	19.75	20.95	20.17	21.34	21.74
	12H	18.93	20.09	19.36	20.47	20.90	19.77	20.92	20.20	21.30	21.73
4H	2H	16.96	18.32	17.35	18.66	19.04	17.57	18.93	17.97	19.28	19.66
	3H	18.75	19.88	19.16	20.28	20.68	19.43	20.57	19.84	20.97	21.37
	4H	19.39	20.41	19.82	20.83	21.26	20.12	21.14	20.55	21.56	21.99
	6H	19.84	20.73	20.29	21.17	21.63	20.58	21.48	21.04	21.92	22.37
	8H	19.95	20.79	20.41	21.23	21.70	20.69	21.53	21.15	21.97	22.44
	12H	20.01	20.76	20.49	21.23	21.70	20.74	21.48	21.22	21.96	22.43
8H	4H	19.66	20.49	20.12	20.94	21.40	20.32	21.15	20.78	21.60	22.06
	6H	20.19	20.89	20.69	21.37	21.85	20.87	21.56	21.36	22.05	22.52
	8H	20.35	20.97	20.87	21.48	21.97	21.02	21.64	21.53	22.14	22.63
	12H	20.45	21.00	20.96	21.49	22.05	21.09	21.64	21.60	22.13	22.69
12H	4H	19.68	20.43	20.16	20.90	21.37	20.33	21.07	20.81	21.55	22.02
	6H	20.22	20.84	20.73	21.35	21.84	20.88	21.50	21.39	22.01	22.49
	8H	20.43	20.97	20.93	21.46	22.03	21.07	21.62	21.58	22.11	22.67