

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: P384045

Luminaire Tested: **24ID-80-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384045
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: 24ID-80-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

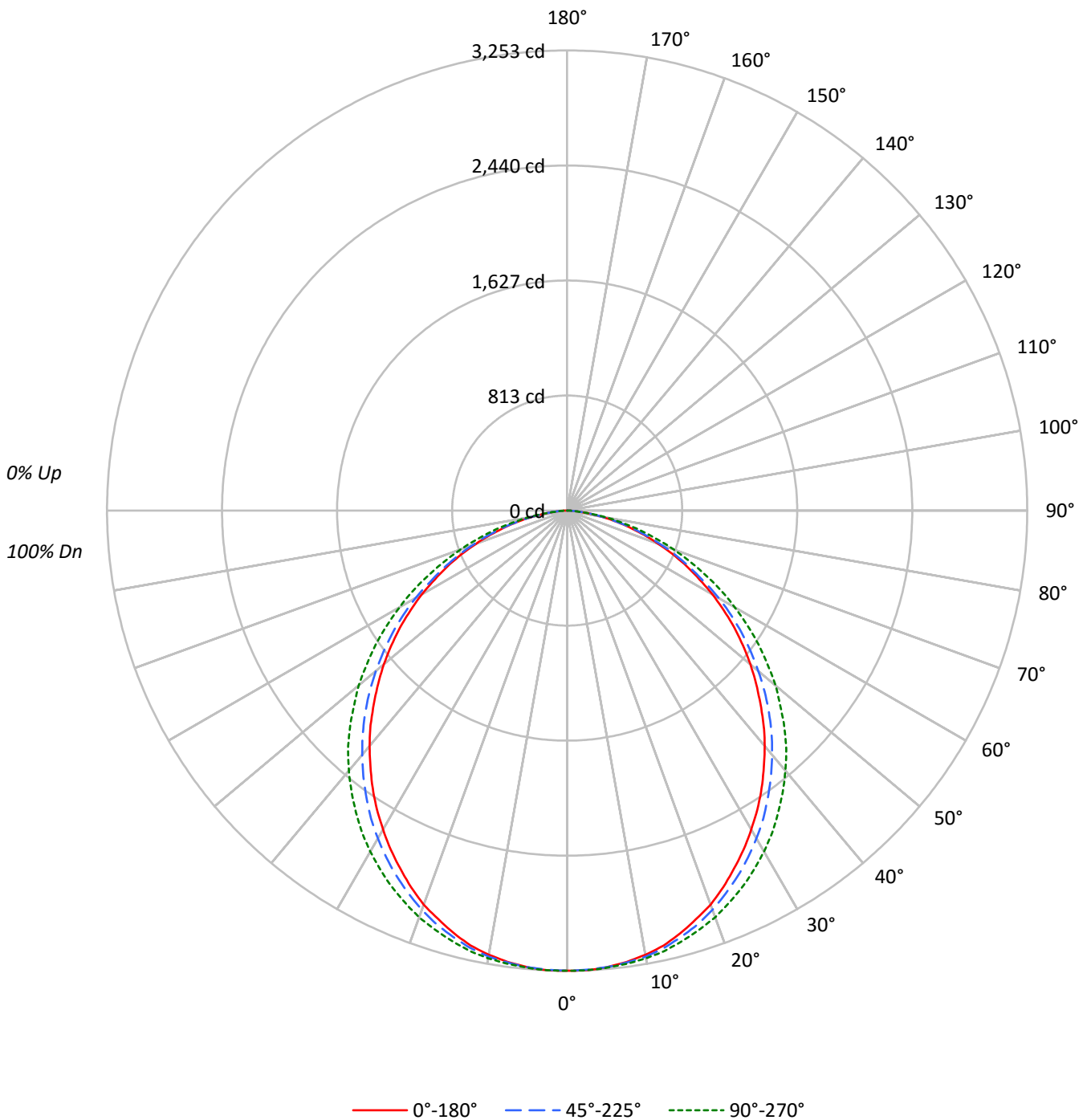
Lumens per Lamp: N/A
Luminaire Lumens: 8586.5 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77
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	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°	4376	4376	4376
5°	4376	4376	4382
10°	4356	4373	4391
15°	4309	4345	4387
20°	4245	4300	4380
25°	4145	4235	4356
30°	4044	4158	4325
35°	3936	4063	4276
40°	3816	3960	4217
45°	3676	3840	4134
50°	3539	3692	4026
55°	3381	3533	3876
60°	3196	3334	3682
65°	2972	3068	3438
70°	2691	2793	3148
75°	2349	2438	2751
80°	1900	1933	2167
85°	1129	1261	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	3.6
10°-20°	880.1	10.2
20°-30°	1316.5	15.3
30°-40°	1555.4	18.1
40°-50°	1569.5	18.3
50°-60°	1363.0	15.9
60°-70°	977.4	11.4
70°-80°	509.2	5.9
80°-90°	107.5	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°	2504.5	29.2
0°-40°	4060.0	47.3
0°-60°	6992.5	81.4
0°-90°	8586.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8586.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3253	3253	3253	3253	3253	
5°	3240	3236	3240	3240	3244	308
15°	3094	3098	3119	3141	3149	872
25°	2792	2810	2852	2908	2934	1287
35°	2396	2414	2474	2564	2603	1498
45°	1932	1953	2018	2121	2173	1492
55°	1441	1454	1506	1605	1652	1287
65°	934	929	964	1037	1080	923
75°	452	448	469	503	529	482
85°	73	82	82	73	69	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3252.7	3252.7	3252.7	3252.7	3252.7
2.5°	3252.7	3248.4	3248.4	3248.4	3252.7
5°	3239.8	3235.5	3239.8	3239.8	3244.1
7.5°	3218.3	3214.0	3222.6	3226.9	3231.2
10°	3188.1	3188.1	3201.0	3209.7	3214.0
12.5°	3149.4	3149.4	3166.6	3179.5	3188.1
15°	3093.5	3097.8	3119.3	3140.8	3149.4
17.5°	3029.0	3041.9	3067.7	3097.8	3106.4
20°	2964.4	2973.0	3003.1	3041.9	3059.1
22.5°	2882.7	2895.6	2930.0	2981.6	2998.8
25°	2792.3	2809.5	2852.5	2908.5	2934.3
27.5°	2702.0	2714.9	2766.5	2831.0	2861.2
30°	2603.0	2620.2	2676.1	2749.3	2783.7
32.5°	2504.0	2517.0	2581.5	2658.9	2697.7
35°	2396.5	2413.7	2473.9	2564.3	2603.0
37.5°	2284.6	2306.1	2366.4	2461.0	2504.0
40°	2172.8	2185.7	2254.5	2349.2	2400.8
42.5°	2056.6	2073.8	2138.3	2241.6	2293.2
45°	1931.8	1953.3	2017.9	2121.1	2172.8
47.5°	1811.3	1832.9	1893.1	1996.4	2043.7
50°	1690.9	1703.8	1764.0	1867.3	1923.2
52.5°	1566.1	1579.0	1634.9	1733.9	1785.5
55°	1441.3	1454.2	1505.9	1604.8	1652.2
57.5°	1312.3	1320.9	1372.5	1462.8	1510.2
60°	1187.5	1191.8	1239.1	1320.9	1368.2
62.5°	1054.1	1058.4	1092.8	1187.5	1230.5
65°	933.6	929.3	963.8	1036.9	1079.9
67.5°	808.9	808.9	839.0	903.5	937.9
70°	684.1	684.1	709.9	765.8	800.3
72.5°	567.9	567.9	589.4	632.5	658.3
75°	451.8	447.5	469.0	503.4	529.2
77.5°	344.2	344.2	352.8	382.9	400.1
80°	245.2	245.2	249.5	266.8	279.7
82.5°	154.9	154.9	154.9	163.5	167.8
85°	73.1	81.7	81.7	73.1	68.8
87.5°	34.4	34.4	30.1	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)