

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: P383885

Luminaire Tested: **24ID-90-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

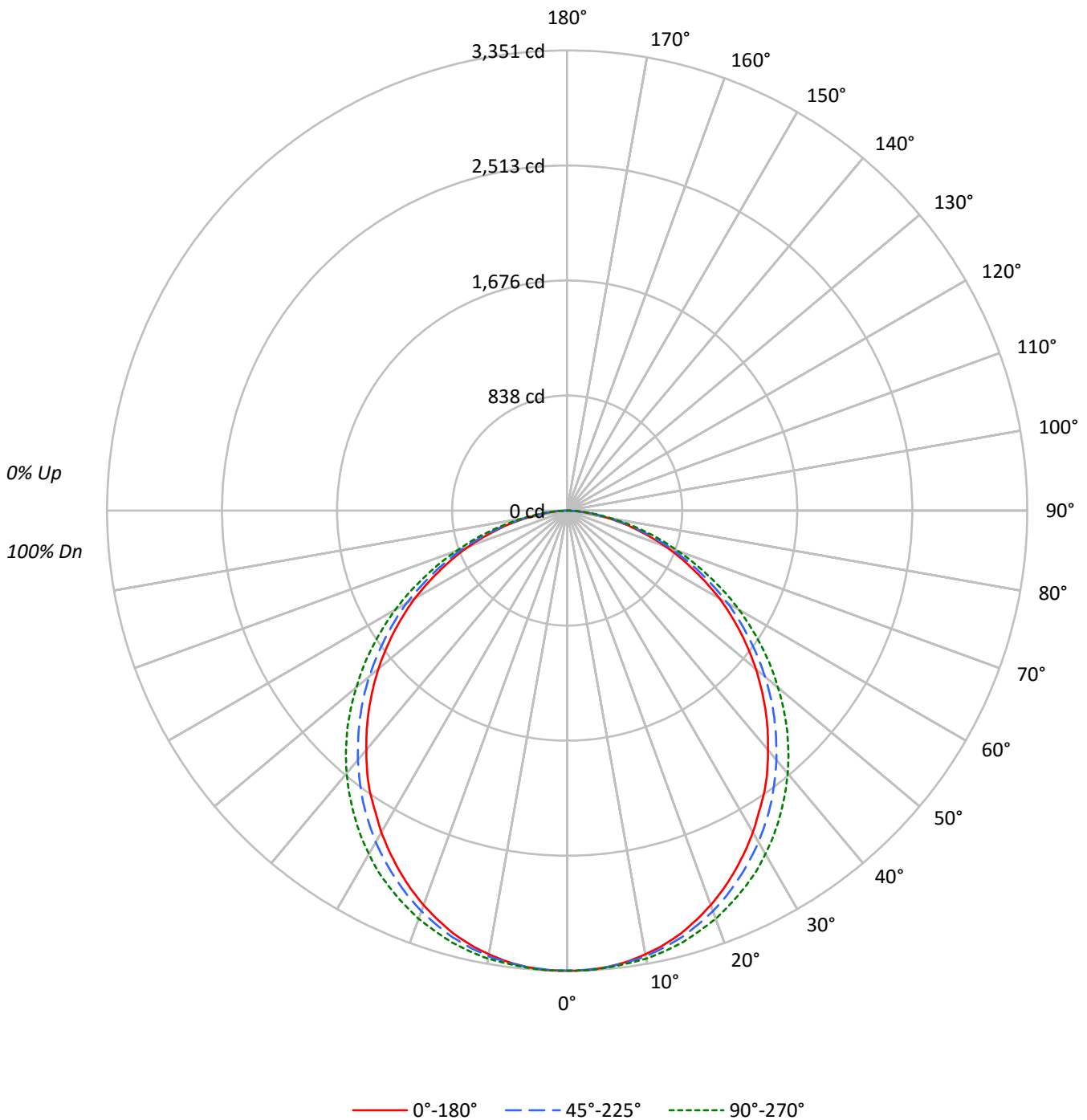
Lumens per Lamp: N/A
Luminaire Lumens: 9100.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.5
Input Voltage (V): NR
Input Current (A_{in}): 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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4508	4508	4508
5°	4507	4507	4513
10°	4484	4503	4528
15°	4444	4482	4534
20°	4378	4444	4529
25°	4295	4390	4512
30°	4203	4331	4488
35°	4113	4255	4444
40°	3996	4165	4390
45°	3885	4059	4311
50°	3756	3938	4197
55°	3608	3790	4059
60°	3449	3634	3893
65°	3221	3410	3643
70°	2989	3151	3367
75°	2665	2808	3046
80°	2235	2341	2554
85°	1697	1697	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	3.5
10°-20°	907.4	10.0
20°-30°	1364.4	15.0
30°-40°	1623.1	17.8
40°-50°	1651.5	18.1
50°-60°	1453.5	16.0
60°-70°	1066.2	11.7
70°-80°	578.7	6.4
80°-90°	138.1	1.5
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°	2588.9	28.4
0°-40°	4212.0	46.3
0°-60°	7317.0	80.4
0°-90°	9100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3351	3351	3351	3351	3351	
5°	3337	3332	3337	3337	3342	317
15°	3190	3195	3218	3236	3255	899
25°	2893	2911	2957	3007	3039	1332
35°	2504	2522	2591	2669	2705	1563
45°	2042	2060	2133	2225	2266	1574
55°	1538	1561	1616	1694	1730	1375
65°	1012	1030	1071	1117	1144	1005
75°	513	522	540	568	586	545
85°	110	110	110	119	124	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3350.7	3346.1	3346.1	3346.1	3350.7
5°	3337.0	3332.4	3337.0	3337.0	3341.5
7.5°	3314.1	3309.5	3318.7	3323.2	3327.8
10°	3282.0	3282.0	3295.8	3304.9	3314.1
12.5°	3240.8	3245.4	3259.1	3272.9	3286.6
15°	3190.5	3195.1	3217.9	3236.3	3254.6
17.5°	3126.4	3135.6	3163.0	3190.5	3208.8
20°	3057.7	3071.5	3103.5	3140.1	3163.0
22.5°	2979.9	2998.2	3034.9	3080.6	3103.5
25°	2892.9	2911.3	2957.0	3007.4	3039.4
27.5°	2801.4	2824.3	2874.6	2934.1	2970.8
30°	2705.3	2728.2	2787.7	2851.8	2888.4
32.5°	2600.0	2627.5	2691.5	2764.8	2801.4
35°	2503.9	2522.2	2590.8	2668.7	2705.3
37.5°	2394.0	2416.9	2481.0	2563.4	2604.6
40°	2275.0	2297.9	2371.1	2453.5	2499.3
42.5°	2160.6	2178.9	2252.1	2343.7	2384.9
45°	2041.5	2059.9	2133.1	2224.6	2265.8
47.5°	1918.0	1940.8	2009.5	2096.5	2137.7
50°	1794.4	1812.7	1881.3	1963.7	2004.9
52.5°	1666.2	1684.5	1748.6	1831.0	1872.2
55°	1538.0	1560.9	1615.8	1693.7	1730.3
57.5°	1409.9	1432.7	1483.1	1556.3	1588.4
60°	1281.7	1300.0	1350.3	1414.4	1446.5
62.5°	1144.4	1158.1	1208.4	1272.5	1300.0
65°	1011.6	1029.9	1071.1	1116.9	1144.4
67.5°	888.0	897.2	933.8	984.2	1002.5
70°	759.9	769.0	801.1	842.3	856.0
72.5°	631.7	645.4	668.3	704.9	723.2
75°	512.7	521.8	540.1	567.6	585.9
77.5°	398.2	402.8	416.5	439.4	453.2
80°	288.4	293.0	302.1	320.4	329.6
82.5°	192.3	196.8	201.4	210.6	219.7
85°	109.9	109.9	109.9	119.0	123.6
87.5°	41.2	36.6	36.6	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)