

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: P384053

Luminaire Tested: **24ID-90-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384053
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-90-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

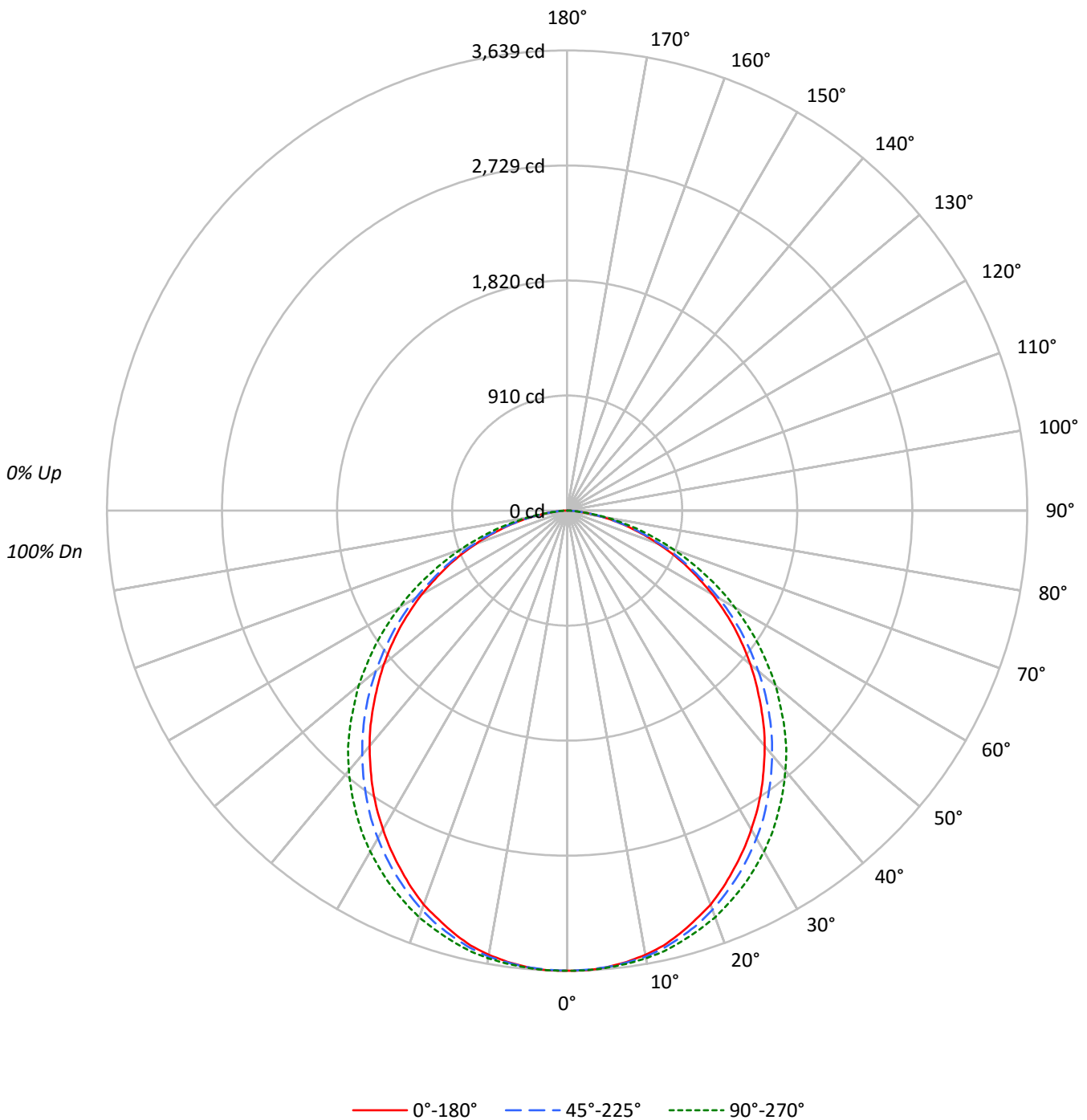
Lumens per Lamp: N/A
Luminaire Lumens: 9605.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4896	4896	4896
5°	4895	4895	4902
10°	4873	4892	4912
15°	4820	4861	4908
20°	4748	4810	4900
25°	4637	4737	4873
30°	4524	4651	4838
35°	4403	4546	4783
40°	4269	4430	4717
45°	4112	4295	4625
50°	3959	4131	4503
55°	3782	3952	4335
60°	3575	3730	4119
65°	3325	3432	3846
70°	3011	3124	3522
75°	2627	2727	3078
80°	2125	2163	2424
85°	1263	1411	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.6
10°-20°	984.5	10.2
20°-30°	1472.7	15.3
30°-40°	1740.0	18.1
40°-50°	1755.8	18.3
50°-60°	1524.8	15.9
60°-70°	1093.4	11.4
70°-80°	569.6	5.9
80°-90°	120.2	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°	2801.8	29.2
0°-40°	4541.8	47.3
0°-60°	7822.3	81.4
0°-90°	9605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9605.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3639	3639	3639	3639	3639	
5°	3624	3619	3624	3624	3629	344
15°	3461	3465	3490	3514	3523	975
25°	3124	3143	3191	3254	3282	1439
35°	2681	2700	2768	2869	2912	1676
45°	2161	2185	2257	2373	2431	1669
55°	1612	1627	1685	1795	1848	1440
65°	1044	1040	1078	1160	1208	1033
75°	505	501	525	563	592	539
85°	82	91	91	82	77	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3638.7	3638.7	3638.7	3638.7	3638.7
2.5°	3638.7	3633.9	3633.9	3633.9	3638.7
5°	3624.3	3619.4	3624.3	3624.3	3629.1
7.5°	3600.2	3595.4	3605.0	3609.8	3614.6
10°	3566.5	3566.5	3580.9	3590.6	3595.4
12.5°	3523.2	3523.2	3542.4	3556.9	3566.5
15°	3460.6	3465.4	3489.5	3513.6	3523.2
17.5°	3388.4	3402.8	3431.7	3465.4	3475.0
20°	3316.2	3325.8	3359.5	3402.8	3422.1
22.5°	3224.8	3239.2	3277.7	3335.5	3354.7
25°	3123.7	3142.9	3191.1	3253.6	3282.5
27.5°	3022.6	3037.1	3094.8	3167.0	3200.7
30°	2911.9	2931.2	2993.7	3075.6	3114.1
32.5°	2801.2	2815.7	2887.8	2974.5	3017.8
35°	2680.9	2700.1	2767.5	2868.6	2911.9
37.5°	2555.7	2579.8	2647.2	2753.1	2801.2
40°	2430.6	2445.0	2522.1	2627.9	2685.7
42.5°	2300.7	2319.9	2392.1	2507.6	2565.4
45°	2161.1	2185.1	2257.3	2372.8	2430.6
47.5°	2026.3	2050.4	2117.8	2233.3	2286.2
50°	1891.5	1906.0	1973.4	2088.9	2151.4
52.5°	1752.0	1766.4	1829.0	1939.7	1997.4
55°	1612.4	1626.8	1684.6	1795.3	1848.2
57.5°	1468.0	1477.6	1535.4	1636.4	1689.4
60°	1328.4	1333.2	1386.2	1477.6	1530.6
62.5°	1179.2	1184.0	1222.5	1328.4	1376.5
65°	1044.4	1039.6	1078.1	1160.0	1208.1
67.5°	904.9	904.9	938.6	1010.7	1049.3
70°	765.3	765.3	794.2	856.7	895.2
72.5°	635.3	635.3	659.4	707.5	736.4
75°	505.4	500.6	524.6	563.1	592.0
77.5°	385.0	385.0	394.7	428.4	447.6
80°	274.3	274.3	279.2	298.4	312.9
82.5°	173.3	173.3	173.3	182.9	187.7
85°	81.8	91.4	91.4	81.8	77.0
87.5°	38.5	38.5	33.7	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)