

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: P383940

Luminaire Tested: **14ID-85-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383940
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: 14ID-85-L840-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

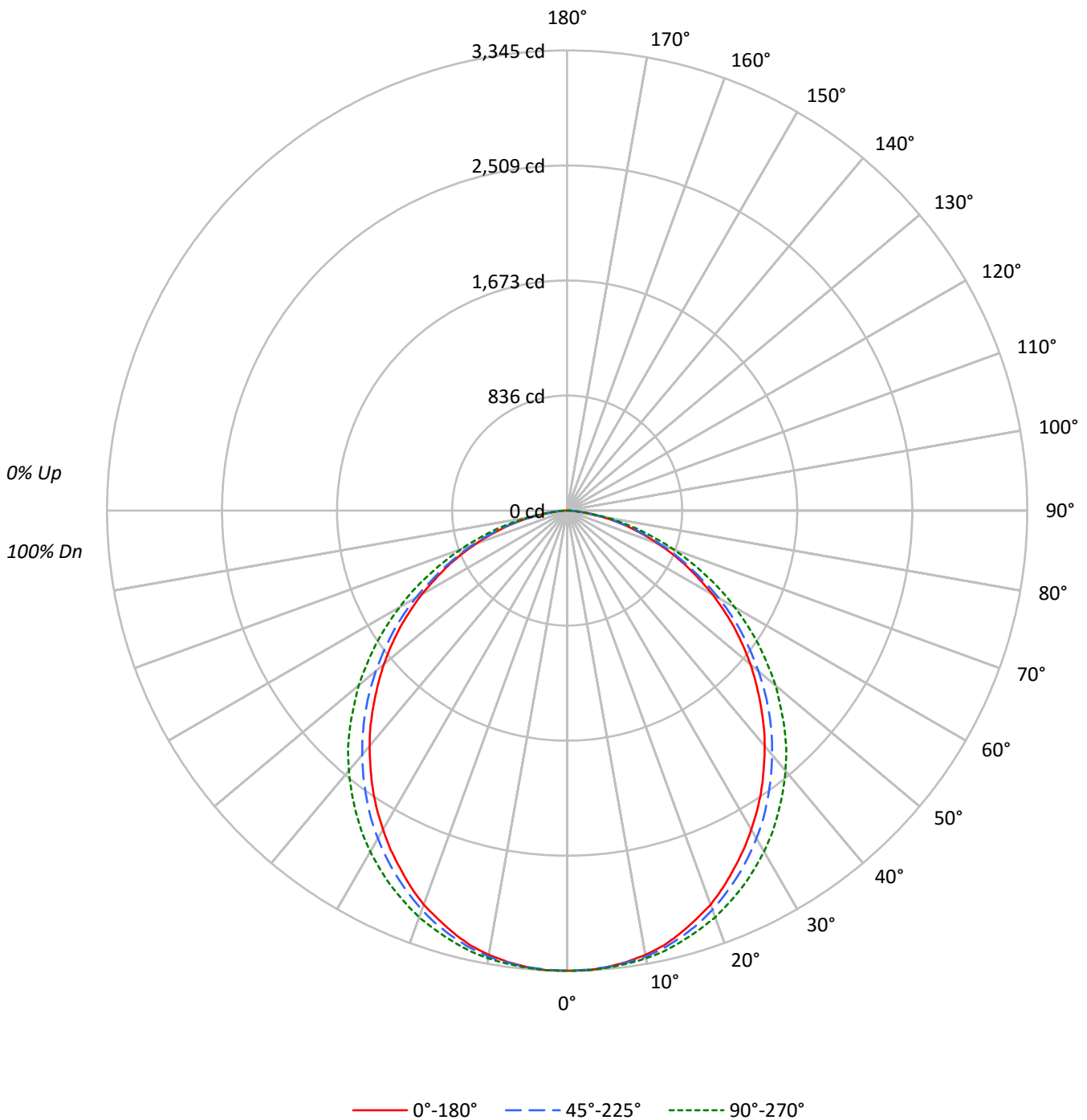
Lumens per Lamp: N/A
Luminaire Lumens: 8829.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
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°	9001	9001	9001
5°	9000	9000	9011
10°	8958	8995	9031
15°	8863	8936	9023
20°	8730	8844	9009
25°	8526	8710	8959
30°	8318	8551	8895
35°	8096	8358	8793
40°	7849	8144	8672
45°	7560	7897	8503
50°	7279	7594	8279
55°	6954	7265	7971
60°	6572	6858	7572
65°	6113	6311	7071
70°	5535	5744	6474
75°	4831	5015	5658
80°	3908	3976	4457
85°	2322	2597	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	3.6
10°-20°	905.0	10.2
20°-30°	1353.8	15.3
30°-40°	1599.5	18.1
40°-50°	1614.0	18.3
50°-60°	1401.7	15.9
60°-70°	1005.1	11.4
70°-80°	523.6	5.9
80°-90°	110.5	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°	2575.5	29.2
0°-40°	4175.0	47.3
0°-60°	7190.7	81.4
0°-90°	8829.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8829.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3345	3345	3345	3345	3345	
5°	3332	3327	3332	3332	3336	316
15°	3181	3186	3208	3230	3239	896
25°	2872	2889	2933	2991	3018	1323
35°	2464	2482	2544	2637	2677	1541
45°	1987	2009	2075	2181	2234	1534
55°	1482	1496	1549	1650	1699	1324
65°	960	956	991	1066	1110	949
75°	465	460	482	518	544	496
85°	75	84	84	75	71	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3344.9	3344.9	3344.9	3344.9	3344.9
2.5°	3344.9	3340.5	3340.5	3340.5	3344.9
5°	3331.6	3327.2	3331.6	3331.6	3336.0
7.5°	3309.5	3305.1	3313.9	3318.3	3322.8
10°	3278.5	3278.5	3291.8	3300.6	3305.1
12.5°	3238.7	3238.7	3256.4	3269.7	3278.5
15°	3181.2	3185.6	3207.7	3229.8	3238.7
17.5°	3114.8	3128.1	3154.6	3185.6	3194.5
20°	3048.4	3057.3	3088.3	3128.1	3145.8
22.5°	2964.4	2977.7	3013.0	3066.1	3083.8
25°	2871.5	2889.2	2933.4	2990.9	3017.5
27.5°	2778.6	2791.8	2844.9	2911.3	2942.3
30°	2676.8	2694.5	2752.0	2827.2	2862.6
32.5°	2575.0	2588.3	2654.7	2734.3	2774.1
35°	2464.4	2482.1	2544.1	2637.0	2676.8
37.5°	2349.4	2371.5	2433.4	2530.8	2575.0
40°	2234.3	2247.6	2318.4	2415.7	2468.8
42.5°	2114.9	2132.6	2199.0	2305.1	2358.2
45°	1986.6	2008.7	2075.1	2181.3	2234.3
47.5°	1862.7	1884.8	1946.8	2052.9	2101.6
50°	1738.8	1752.1	1814.0	1920.2	1977.7
52.5°	1610.5	1623.8	1681.3	1783.1	1836.1
55°	1482.2	1495.5	1548.6	1650.3	1699.0
57.5°	1349.5	1358.3	1411.4	1504.3	1553.0
60°	1221.1	1225.6	1274.2	1358.3	1407.0
62.5°	1084.0	1088.4	1123.8	1221.1	1265.4
65°	960.1	955.7	991.1	1066.3	1110.5
67.5°	831.8	831.8	862.8	929.1	964.5
70°	703.5	703.5	730.0	787.6	822.9
72.5°	584.0	584.0	606.1	650.4	676.9
75°	464.6	460.1	482.3	517.7	544.2
77.5°	354.0	354.0	362.8	393.8	411.5
80°	252.2	252.2	256.6	274.3	287.6
82.5°	159.3	159.3	159.3	168.1	172.6
85°	75.2	84.1	84.1	75.2	70.8
87.5°	35.4	35.4	31.0	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)