

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: P385225

Luminaire Tested: **24ID-85-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-85-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

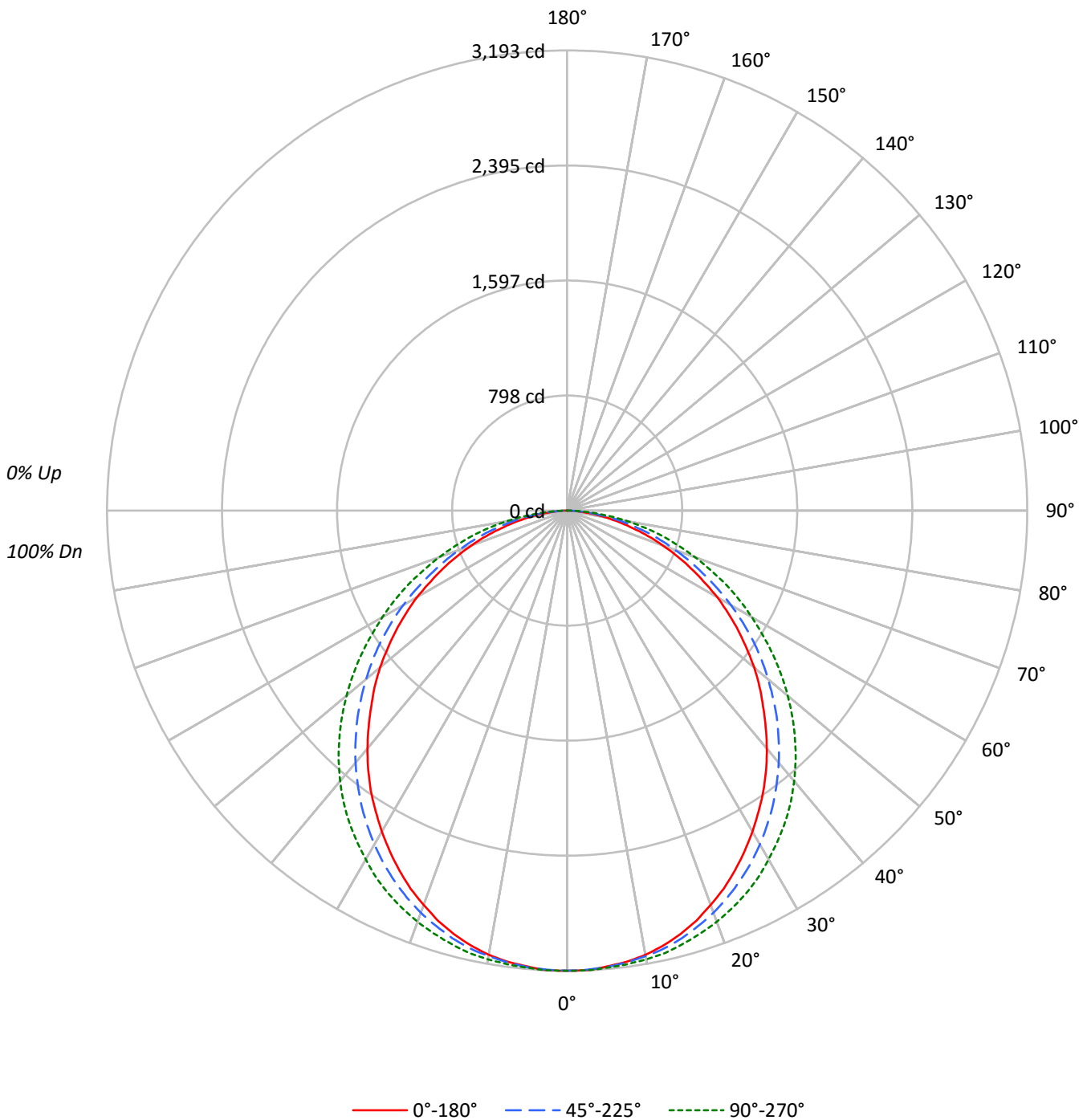
Lumens per Lamp: N/A
Luminaire Lumens: 8865.5 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.4
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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4296	4296	4296
5°	4289	4294	4301
10°	4277	4289	4320
15°	4236	4280	4336
20°	4169	4252	4348
25°	4090	4209	4355
30°	3995	4155	4342
35°	3901	4091	4334
40°	3786	4014	4304
45°	3659	3923	4255
50°	3548	3810	4184
55°	3399	3693	4091
60°	3237	3538	3983
65°	3018	3332	3873
70°	2780	3131	3712
75°	2464	2906	3557
80°	2079	2599	3292
85°	1519	2002	2623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	3.4
10°-20°	867.1	9.8
20°-30°	1307.8	14.8
30°-40°	1561.3	17.6
40°-50°	1595.7	18.0
50°-60°	1415.0	16.0
60°-70°	1054.8	11.9
70°-80°	602.6	6.8
80°-90°	158.9	1.8
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°	2477.2	27.9
0°-40°	4038.5	45.6
0°-60°	7049.2	79.5
0°-90°	8865.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8865.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3193	3193	3193	3193	3193	
5°	3175	3175	3180	3180	3184	302
15°	3041	3050	3072	3099	3112	857
25°	2755	2777	2835	2898	2934	1268
35°	2375	2406	2491	2589	2638	1484
45°	1923	1963	2062	2173	2236	1486
55°	1449	1476	1574	1686	1744	1295
65°	948	970	1046	1154	1216	940
75°	474	496	559	644	684	506
85°	98	103	130	161	170	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3193.0	3193.0	3193.0	3193.0	3193.0
2.5°	3193.0	3188.6	3188.6	3188.6	3193.0
5°	3175.2	3175.2	3179.6	3179.6	3184.1
7.5°	3157.3	3157.3	3161.7	3166.2	3175.2
10°	3130.4	3130.4	3139.4	3152.8	3161.7
12.5°	3090.2	3094.7	3112.5	3130.4	3143.9
15°	3041.0	3049.9	3072.3	3099.1	3112.5
17.5°	2982.9	2991.8	3023.1	3058.9	3076.8
20°	2911.3	2929.2	2969.4	3014.2	3036.5
22.5°	2839.8	2857.6	2906.8	2960.5	2987.3
25°	2754.8	2777.1	2835.3	2897.9	2933.7
27.5°	2665.3	2692.2	2759.3	2830.8	2871.1
30°	2571.4	2602.7	2674.3	2754.8	2795.0
32.5°	2473.0	2504.3	2584.8	2674.3	2719.0
35°	2374.7	2406.0	2490.9	2589.3	2638.5
37.5°	2267.3	2298.6	2388.1	2495.4	2549.1
40°	2155.5	2191.3	2285.2	2392.5	2450.7
42.5°	2039.3	2079.5	2173.4	2289.7	2347.8
45°	1923.0	1963.2	2061.6	2173.4	2236.0
47.5°	1811.2	1842.5	1940.9	2057.1	2119.8
50°	1694.9	1721.7	1820.1	1936.4	1999.0
52.5°	1569.7	1605.5	1699.4	1815.7	1873.8
55°	1448.9	1475.8	1574.2	1686.0	1744.1
57.5°	1323.7	1350.6	1444.5	1556.3	1609.9
60°	1203.0	1229.8	1314.8	1426.6	1480.2
62.5°	1068.8	1095.7	1180.6	1296.9	1350.6
65°	948.1	970.4	1046.5	1153.8	1216.4
67.5°	827.3	849.7	921.2	1024.1	1073.3
70°	706.6	724.5	796.0	889.9	943.6
72.5°	590.3	608.2	679.8	764.7	809.4
75°	474.0	496.4	559.0	644.0	684.2
77.5°	366.7	389.1	442.7	518.8	554.5
80°	268.3	286.2	335.4	393.5	424.8
82.5°	178.9	192.3	228.1	277.3	299.6
85°	98.4	102.9	129.7	161.0	169.9
87.5°	40.2	40.2	49.2	53.7	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)