

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: P385229

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385229
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-90-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

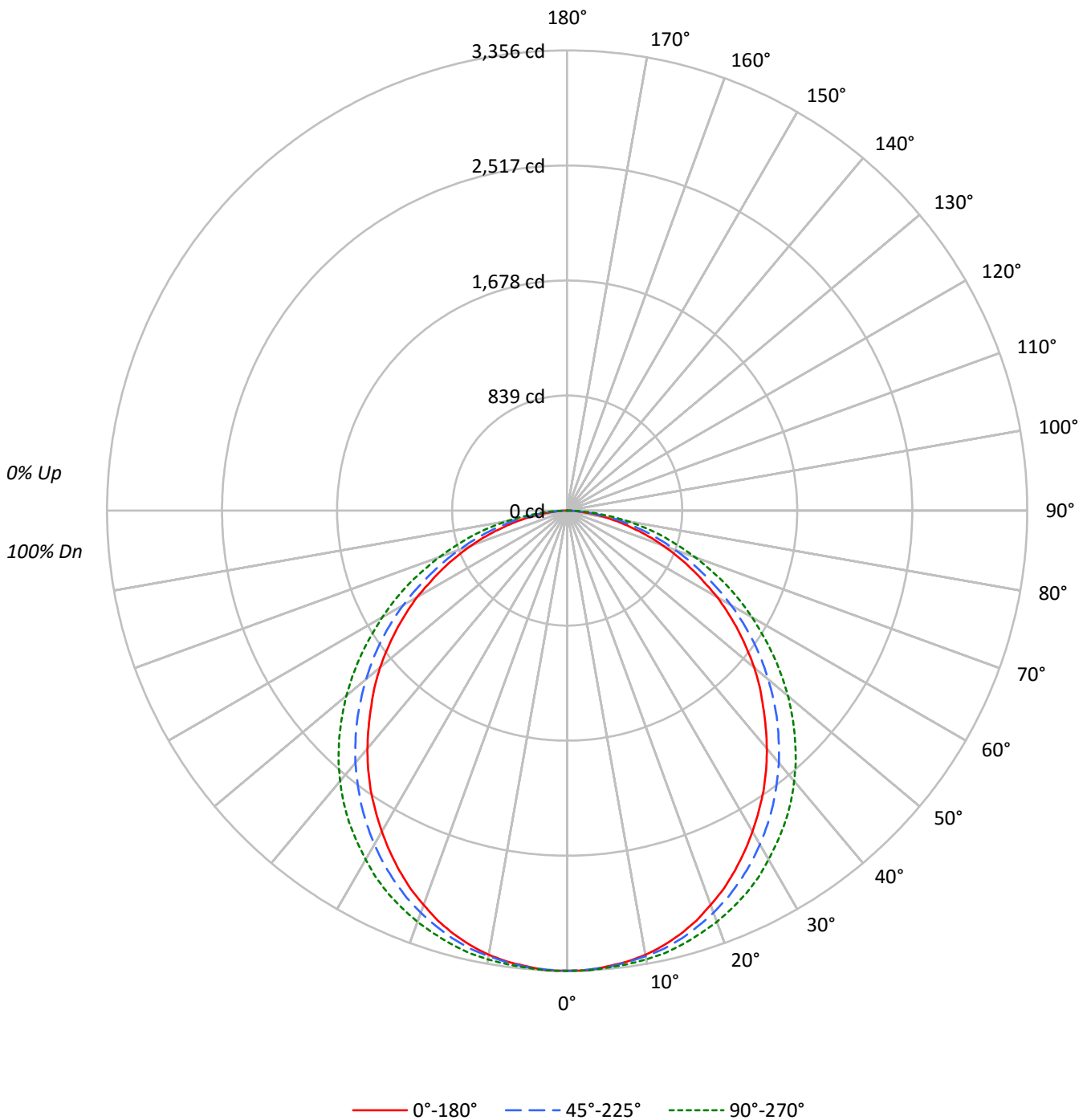
Lumens per Lamp: N/A
Luminaire Lumens: 9319.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.5
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	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°	4516	4516	4516
5°	4508	4514	4521
10°	4496	4509	4541
15°	4453	4499	4558
20°	4382	4469	4570
25°	4299	4425	4578
30°	4200	4368	4565
35°	4100	4301	4556
40°	3980	4219	4525
45°	3846	4124	4473
50°	3729	4005	4399
55°	3573	3882	4301
60°	3403	3719	4187
65°	3173	3502	4071
70°	2922	3292	3902
75°	2590	3055	3739
80°	2186	2732	3460
85°	1596	2104	2757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	3.4
10°-20°	911.5	9.8
20°-30°	1374.8	14.8
30°-40°	1641.3	17.6
40°-50°	1677.4	18.0
50°-60°	1487.4	16.0
60°-70°	1108.8	11.9
70°-80°	633.4	6.8
80°-90°	167.1	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°	2604.0	27.9
0°-40°	4245.3	45.6
0°-60°	7410.1	79.5
0°-90°	9319.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9319.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3356	3356	3356	3356	3356	
5°	3338	3338	3342	3342	3347	317
15°	3197	3206	3230	3258	3272	901
25°	2896	2919	2980	3046	3084	1333
35°	2496	2529	2618	2722	2774	1559
45°	2021	2064	2167	2285	2350	1562
55°	1523	1551	1655	1772	1833	1361
65°	997	1020	1100	1213	1279	988
75°	498	522	588	677	719	532
85°	103	108	136	169	179	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3356.5	3356.5	3356.5	3356.5	3356.5
2.5°	3356.5	3351.8	3351.8	3351.8	3356.5
5°	3337.7	3337.7	3342.4	3342.4	3347.1
7.5°	3318.9	3318.9	3323.6	3328.3	3337.7
10°	3290.7	3290.7	3300.1	3314.2	3323.6
12.5°	3248.4	3253.1	3271.9	3290.7	3304.8
15°	3196.7	3206.1	3229.6	3257.8	3271.9
17.5°	3135.6	3145.0	3177.9	3215.5	3234.3
20°	3060.4	3079.2	3121.5	3168.5	3192.0
22.5°	2985.1	3003.9	3055.7	3112.1	3140.3
25°	2895.8	2919.3	2980.4	3046.3	3083.9
27.5°	2801.8	2830.0	2900.5	2975.7	3018.0
30°	2703.1	2736.0	2811.2	2895.8	2938.1
32.5°	2599.7	2632.6	2717.2	2811.2	2858.2
35°	2496.2	2529.1	2618.5	2721.9	2773.6
37.5°	2383.4	2416.3	2510.3	2623.2	2679.6
40°	2265.9	2303.5	2402.2	2515.0	2576.2
42.5°	2143.7	2186.0	2284.7	2406.9	2468.0
45°	2021.4	2063.7	2167.2	2284.7	2350.5
47.5°	1903.9	1936.8	2040.2	2162.5	2228.3
50°	1781.7	1809.9	1913.3	2035.5	2101.4
52.5°	1650.1	1687.7	1786.4	1908.6	1969.7
55°	1523.1	1551.3	1654.8	1772.3	1833.4
57.5°	1391.5	1419.7	1518.4	1636.0	1692.4
60°	1264.6	1292.8	1382.1	1499.6	1556.0
62.5°	1123.5	1151.7	1241.1	1363.3	1419.7
65°	996.6	1020.1	1100.0	1212.9	1278.7
67.5°	869.7	893.2	968.4	1076.5	1128.2
70°	742.8	761.6	836.8	935.5	991.9
72.5°	620.5	639.3	714.6	803.9	850.9
75°	498.3	521.8	587.6	676.9	719.3
77.5°	385.5	409.0	465.4	545.3	582.9
80°	282.1	300.9	352.6	413.7	446.6
82.5°	188.0	202.1	239.8	291.5	315.0
85°	103.4	108.1	136.3	169.2	178.6
87.5°	42.3	42.3	51.7	56.4	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)