

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: P385390

Luminaire Tested: **24ID-85-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-85-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

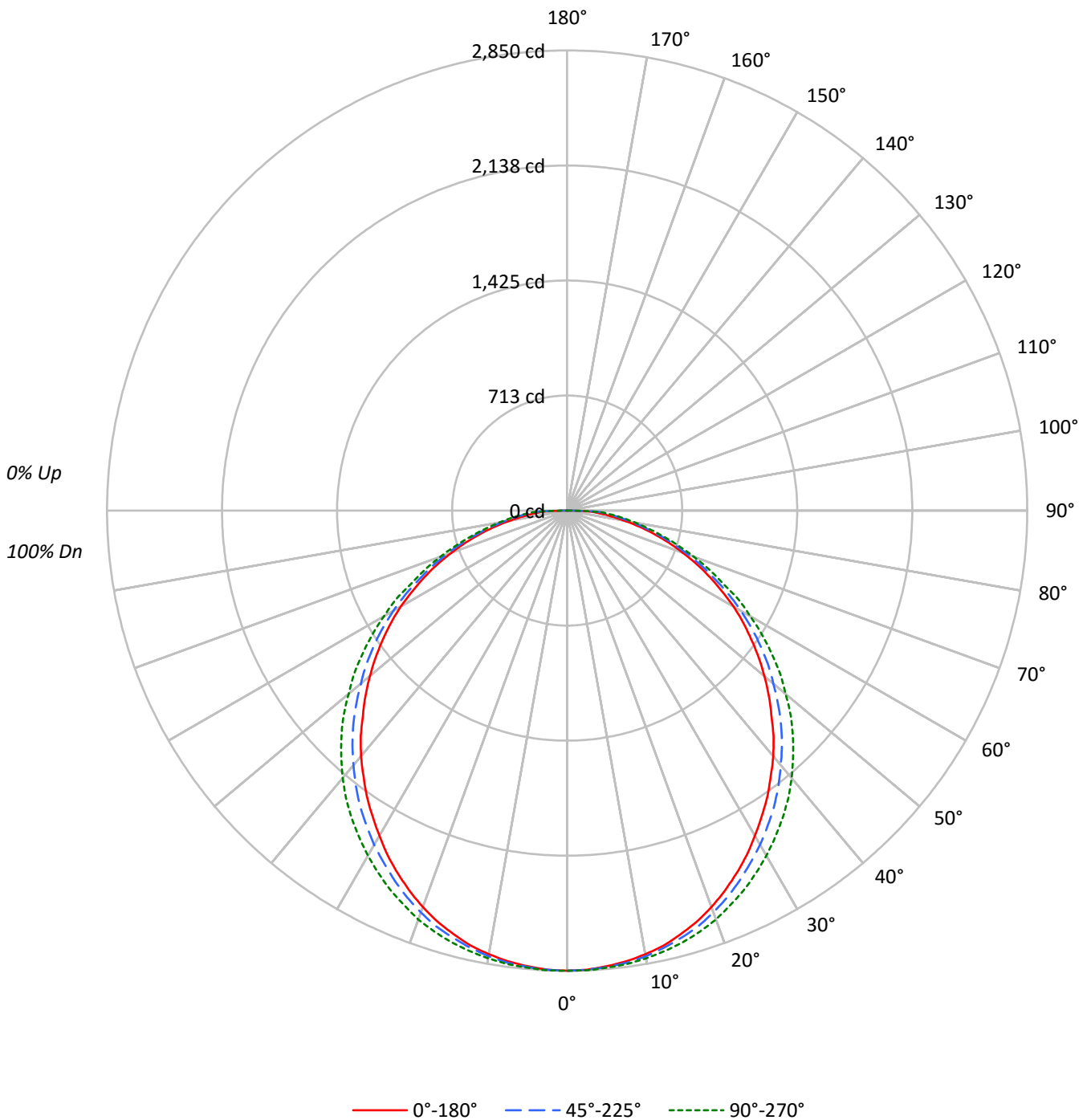
Lumens per Lamp: N/A
Luminaire Lumens: 8266.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 82
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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3835	3835	3835
5°	3812	3803	3810
10°	3784	3771	3791
15°	3743	3726	3772
20°	3686	3673	3746
25°	3612	3604	3704
30°	3528	3533	3658
35°	3451	3458	3609
40°	3370	3367	3550
45°	3267	3277	3473
50°	3180	3159	3364
55°	3084	3044	3244
60°	2989	2899	3083
65°	2852	2715	2868
70°	2686	2517	2670
75°	2495	2302	2437
80°	2236	2086	2239
85°	2112	1980	2141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.7	3.3
10°-20°	772.8	9.3
20°-30°	1166.2	14.1
30°-40°	1399.8	16.9
40°-50°	1448.7	17.5
50°-60°	1312.4	15.9
60°-70°	1011.2	12.2
70°-80°	625.7	7.6
80°-90°	259.9	3.1
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°	2208.7	26.7
0°-40°	3608.6	43.7
0°-60°	6369.7	77.1
0°-90°	8266.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8266.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2850	2850	2850	2850	2850	
5°	2833	2833	2837	2837	2842	269
15°	2717	2721	2738	2756	2768	766
25°	2480	2489	2528	2571	2592	1142
35°	2162	2180	2235	2296	2326	1352
45°	1788	1814	1874	1943	1977	1383
55°	1393	1414	1462	1526	1548	1247
65°	976	984	1014	1058	1062	965
75°	554	567	589	615	615	587
85°	202	224	258	275	271	218
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2850.1	2850.1	2850.1	2850.1	2850.1
2.5°	2845.8	2845.8	2845.8	2845.8	2850.1
5°	2832.9	2832.9	2837.2	2837.2	2841.5
7.5°	2815.7	2815.7	2824.3	2824.3	2832.9
10°	2789.9	2794.2	2802.8	2807.1	2815.7
12.5°	2759.8	2759.8	2772.7	2785.6	2794.2
15°	2716.8	2721.1	2738.3	2755.5	2768.4
17.5°	2669.5	2673.8	2699.6	2716.8	2734.0
20°	2613.7	2618.0	2648.0	2673.8	2695.3
22.5°	2549.2	2557.8	2592.2	2626.6	2643.7
25°	2480.4	2489.0	2527.7	2570.7	2592.2
27.5°	2407.3	2420.2	2458.9	2506.2	2532.0
30°	2325.6	2342.8	2390.1	2441.7	2467.5
32.5°	2244.0	2261.2	2312.7	2372.9	2398.7
35°	2162.3	2179.5	2235.4	2295.5	2325.6
37.5°	2072.0	2089.2	2149.4	2213.9	2248.3
40°	1986.0	2003.2	2059.1	2132.2	2162.3
42.5°	1891.5	1908.7	1968.8	2037.6	2072.0
45°	1788.3	1814.1	1874.3	1943.0	1977.4
47.5°	1693.7	1715.2	1771.1	1844.2	1878.6
50°	1594.8	1616.3	1667.9	1741.0	1766.8
52.5°	1496.0	1517.5	1569.1	1637.8	1663.6
55°	1392.8	1414.3	1461.6	1526.1	1547.6
57.5°	1293.9	1311.1	1354.1	1414.3	1431.5
60°	1190.8	1208.0	1242.3	1298.2	1311.1
62.5°	1079.0	1091.9	1130.6	1182.2	1199.4
65°	975.8	984.4	1014.5	1057.5	1061.8
67.5°	868.4	876.9	907.0	937.1	950.0
70°	760.9	773.8	795.3	825.4	834.0
72.5°	657.7	670.6	692.1	717.9	722.2
75°	554.5	567.4	588.9	614.7	614.7
77.5°	455.7	468.6	494.4	515.9	515.9
80°	356.8	378.3	404.1	425.6	425.6
82.5°	275.1	292.3	326.7	343.9	343.9
85°	202.0	223.5	257.9	275.1	270.8
87.5°	146.2	167.7	197.7	210.6	206.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)