

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: P385284

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385284
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: 14ID-85-L840-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

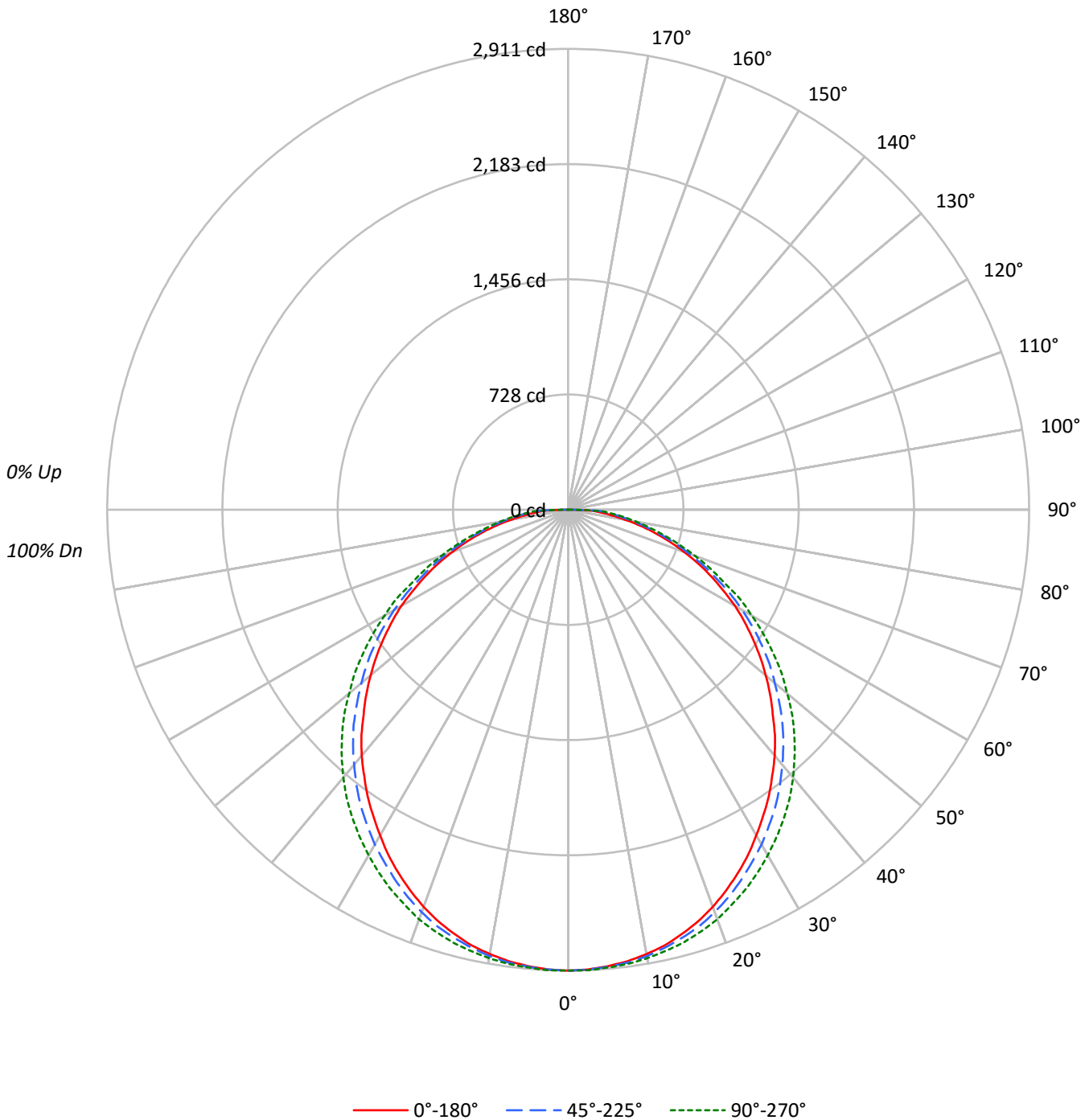
Lumens per Lamp: N/A
Luminaire Lumens: 8444.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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	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°	7835	7835	7835
5°	7789	7729	7728
10°	7731	7625	7635
15°	7646	7497	7542
20°	7532	7352	7434
25°	7380	7174	7295
30°	7209	6992	7145
35°	7050	6800	6989
40°	6886	6576	6807
45°	6674	6351	6589
50°	6498	6068	6304
55°	6300	5787	5991
60°	6106	5442	5593
65°	5826	5014	5088
70°	5488	4550	4597
75°	5097	4036	4025
80°	4569	3485	3463
85°	4317	3031	2941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	3.3
10°-20°	789.5	9.3
20°-30°	1191.3	14.1
30°-40°	1430.0	16.9
40°-50°	1479.9	17.5
50°-60°	1340.7	15.9
60°-70°	1032.9	12.2
70°-80°	639.1	7.6
80°-90°	265.5	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°	2256.3	26.7
0°-40°	3686.2	43.7
0°-60°	6506.8	77.1
0°-90°	8444.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8444.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2894	2894	2898	2898	2903	275
15°	2775	2780	2797	2815	2828	783
25°	2534	2543	2582	2626	2648	1167
35°	2209	2226	2284	2345	2376	1381
45°	1827	1853	1915	1985	2020	1413
55°	1423	1445	1493	1559	1581	1274
65°	997	1006	1036	1080	1085	986
75°	566	580	602	628	628	600
85°	206	228	264	281	277	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.4	2911.4	2911.4	2911.4	2911.4
2.5°	2907.0	2907.0	2907.0	2907.0	2911.4
5°	2893.9	2893.9	2898.2	2898.2	2902.6
7.5°	2876.3	2876.3	2885.1	2885.1	2893.9
10°	2849.9	2854.3	2863.1	2867.5	2876.3
12.5°	2819.2	2819.2	2832.4	2845.6	2854.3
15°	2775.3	2779.7	2797.2	2814.8	2828.0
17.5°	2727.0	2731.4	2757.7	2775.3	2792.9
20°	2669.9	2674.3	2705.0	2731.4	2753.3
22.5°	2604.0	2612.8	2647.9	2683.1	2700.6
25°	2533.8	2542.6	2582.1	2626.0	2647.9
27.5°	2459.1	2472.3	2511.8	2560.1	2586.5
30°	2375.7	2393.3	2441.6	2494.3	2520.6
32.5°	2292.3	2309.8	2362.5	2424.0	2450.3
35°	2208.8	2226.4	2283.5	2344.9	2375.7
37.5°	2116.6	2134.2	2195.6	2261.5	2296.6
40°	2028.8	2046.3	2103.4	2178.1	2208.8
42.5°	1932.2	1949.7	2011.2	2081.5	2116.6
45°	1826.8	1853.1	1914.6	1984.9	2020.0
47.5°	1730.2	1752.1	1809.2	1883.9	1919.0
50°	1629.2	1651.1	1703.8	1778.5	1804.8
52.5°	1528.2	1550.1	1602.8	1673.1	1699.4
55°	1422.8	1444.7	1493.0	1558.9	1580.9
57.5°	1321.8	1339.3	1383.3	1444.7	1462.3
60°	1216.4	1234.0	1269.1	1326.2	1339.3
62.5°	1102.2	1115.4	1154.9	1207.6	1225.2
65°	996.8	1005.6	1036.3	1080.3	1084.6
67.5°	887.0	895.8	926.6	957.3	970.5
70°	777.3	790.4	812.4	843.1	851.9
72.5°	671.9	685.0	707.0	733.3	737.7
75°	566.5	579.6	601.6	628.0	628.0
77.5°	465.5	478.7	505.0	527.0	527.0
80°	364.5	386.4	412.8	434.7	434.7
82.5°	281.0	298.6	333.7	351.3	351.3
85°	206.4	228.3	263.5	281.0	276.7
87.5°	149.3	171.3	202.0	215.2	210.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)