

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: P384047

Luminaire Tested: **24ID-85-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384047
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: 24ID-85-L835-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

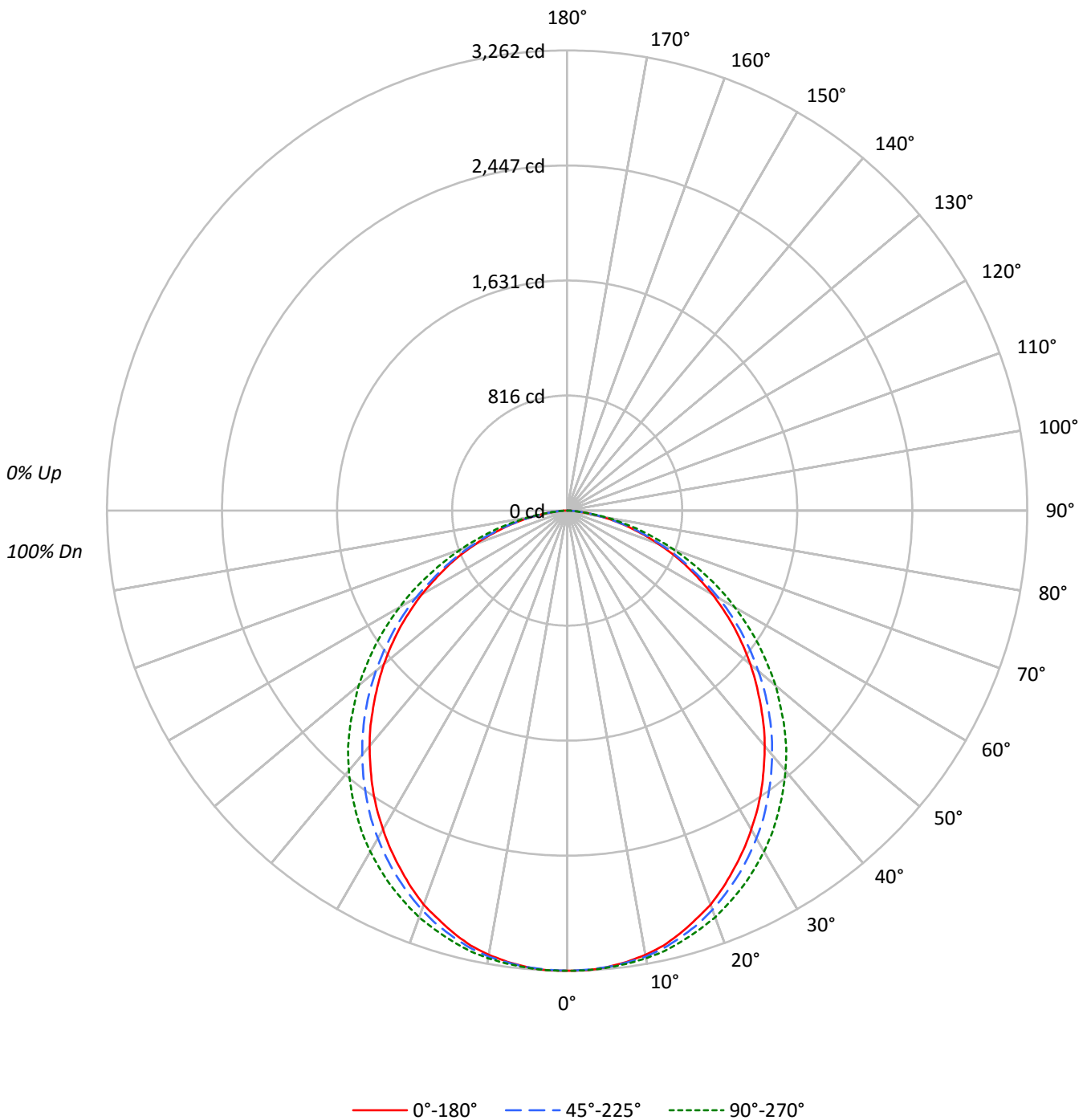
Lumens per Lamp: N/A
Luminaire Lumens: 8610.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82
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	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°	4389	4389	4389
5°	4388	4388	4394
10°	4368	4386	4403
15°	4321	4357	4399
20°	4256	4312	4392
25°	4157	4247	4368
30°	4055	4169	4337
35°	3947	4075	4288
40°	3827	3971	4229
45°	3686	3850	4146
50°	3549	3703	4037
55°	3391	3542	3887
60°	3204	3344	3692
65°	2981	3077	3448
70°	2699	2801	3157
75°	2355	2445	2759
80°	1905	1939	2173
85°	1132	1266	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.8	3.6
10°-20°	882.6	10.2
20°-30°	1320.2	15.3
30°-40°	1559.8	18.1
40°-50°	1573.9	18.3
50°-60°	1366.8	15.9
60°-70°	980.1	11.4
70°-80°	510.6	5.9
80°-90°	107.8	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°	2511.5	29.2
0°-40°	4071.3	47.3
0°-60°	7012.0	81.4
0°-90°	8610.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8610.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3262	3262	3262	3262	3262	
5°	3249	3244	3249	3249	3253	308
15°	3102	3106	3128	3150	3158	874
25°	2800	2817	2860	2917	2942	1290
35°	2403	2420	2481	2571	2610	1502
45°	1937	1959	2024	2127	2179	1496
55°	1445	1458	1510	1609	1657	1291
65°	936	932	966	1040	1083	926
75°	453	449	470	505	531	483
85°	73	82	82	73	69	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3261.8	3261.8	3261.8	3261.8	3261.8
2.5°	3261.8	3257.5	3257.5	3257.5	3261.8
5°	3248.8	3244.5	3248.8	3248.8	3253.1
7.5°	3227.3	3222.9	3231.6	3235.9	3240.2
10°	3197.1	3197.1	3210.0	3218.6	3222.9
12.5°	3158.2	3158.2	3175.5	3188.4	3197.1
15°	3102.1	3106.4	3128.0	3149.6	3158.2
17.5°	3037.4	3050.4	3076.2	3106.4	3115.1
20°	2972.7	2981.3	3011.5	3050.4	3067.6
22.5°	2890.7	2903.7	2938.2	2990.0	3007.2
25°	2800.1	2817.4	2860.5	2916.6	2942.5
27.5°	2709.5	2722.5	2774.2	2838.9	2869.2
30°	2610.3	2627.5	2683.6	2757.0	2791.5
32.5°	2511.0	2524.0	2588.7	2666.4	2705.2
35°	2403.2	2420.4	2480.8	2571.4	2610.3
37.5°	2291.0	2312.6	2373.0	2467.9	2511.0
40°	2178.8	2191.8	2260.8	2355.7	2407.5
42.5°	2062.3	2079.6	2144.3	2247.9	2299.6
45°	1937.2	1958.8	2023.5	2127.1	2178.8
47.5°	1816.4	1838.0	1898.4	2001.9	2049.4
50°	1695.6	1708.5	1768.9	1872.5	1928.6
52.5°	1570.5	1583.4	1639.5	1738.7	1790.5
55°	1445.4	1458.3	1510.1	1609.3	1656.8
57.5°	1315.9	1324.6	1376.3	1466.9	1514.4
60°	1190.8	1195.1	1242.6	1324.6	1372.0
62.5°	1057.1	1061.4	1095.9	1190.8	1234.0
65°	936.2	931.9	966.5	1039.8	1082.9
67.5°	811.1	811.1	841.3	906.0	940.6
70°	686.0	686.0	711.9	768.0	802.5
72.5°	569.5	569.5	591.1	634.2	660.1
75°	453.0	448.7	470.3	504.8	530.7
77.5°	345.2	345.2	353.8	384.0	401.2
80°	245.9	245.9	250.2	267.5	280.4
82.5°	155.3	155.3	155.3	164.0	168.3
85°	73.3	82.0	82.0	73.3	69.0
87.5°	34.5	34.5	30.2	30.2	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)