

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: P384051

Luminaire Tested: **24ID-90-L835-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384051  
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-90-L835-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

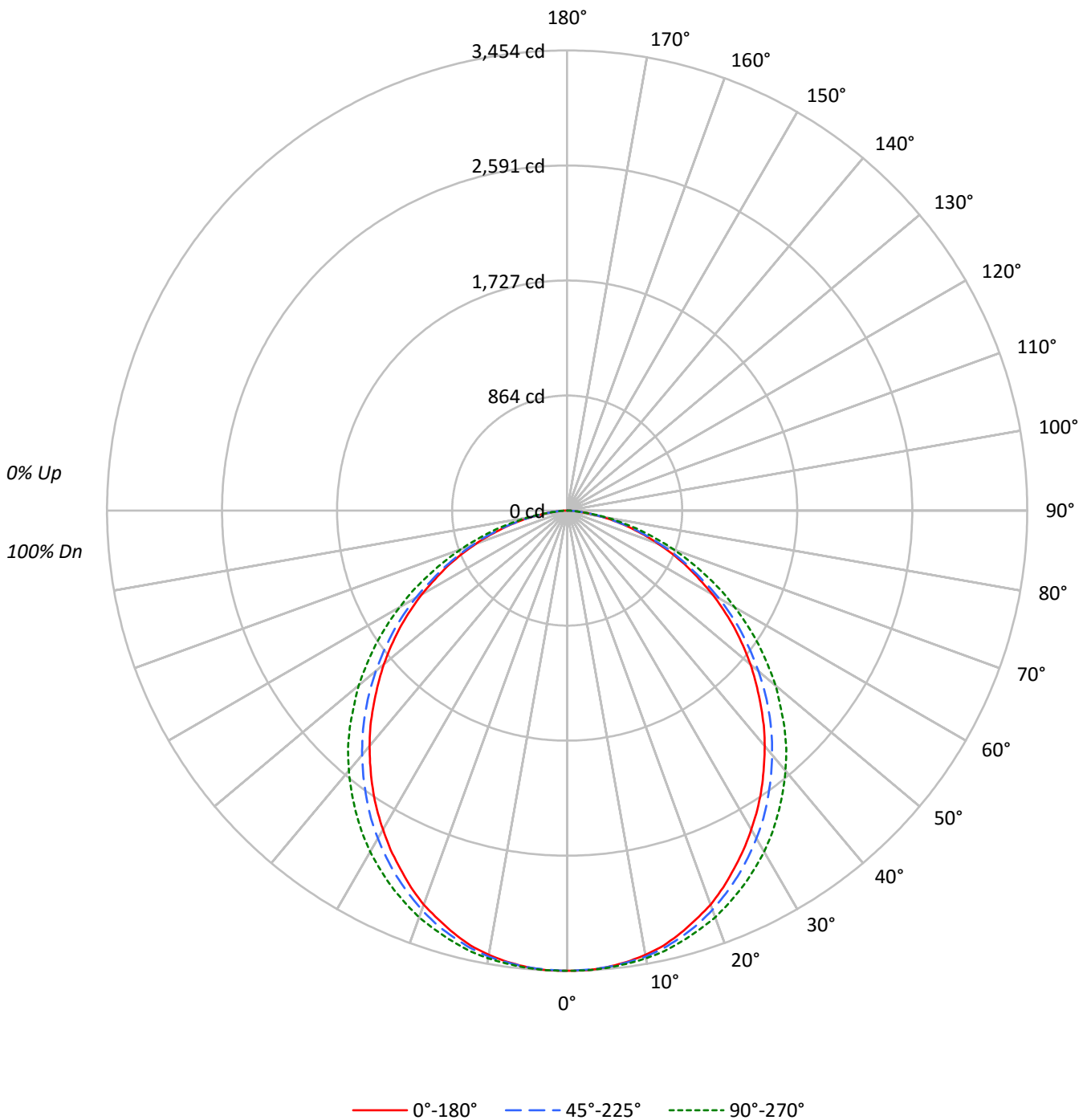
Lumens per Lamp: N/A  
Luminaire Lumens: 9118.5 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.3  
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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4648	4648	4648
5°	4647	4647	4653
10°	4626	4644	4663
15°	4576	4614	4659
20°	4508	4566	4651
25°	4402	4497	4626
30°	4295	4415	4593
35°	4180	4315	4540
40°	4053	4205	4478
45°	3904	4078	4391
50°	3759	3921	4275
55°	3590	3751	4116
60°	3394	3541	3910
65°	3157	3259	3651
70°	2858	2966	3343
75°	2494	2589	2922
80°	2018	2053	2301
85°	1200	1340	1129



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.0	3.6
10°-20°	934.6	10.2
20°-30°	1398.1	15.3
30°-40°	1651.8	18.1
40°-50°	1666.8	18.3
50°-60°	1447.5	15.9
60°-70°	1037.9	11.4
70°-80°	540.7	5.9
80°-90°	114.1	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°	2659.7	29.2
0°-40°	4311.5	47.3
0°-60°	7425.7	81.4
0°-90°	9118.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9118.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3454	3454	3454	3454	3454	
5°	3440	3436	3440	3440	3445	327
15°	3285	3290	3313	3335	3345	926
25°	2965	2984	3029	3089	3116	1366
35°	2545	2563	2627	2723	2764	1591
45°	2052	2074	2143	2252	2307	1584
55°	1531	1544	1599	1704	1754	1367
65°	992	987	1024	1101	1147	980
75°	480	475	498	535	562	512
85°	78	87	87	78	73	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3454.2	3454.2	3454.2	3454.2	3454.2
2.5°	3454.2	3449.6	3449.6	3449.6	3454.2
5°	3440.5	3435.9	3440.5	3440.5	3445.1
7.5°	3417.7	3413.1	3422.2	3426.8	3431.4
10°	3385.7	3385.7	3399.4	3408.5	3413.1
12.5°	3344.6	3344.6	3362.8	3376.5	3385.7
15°	3285.2	3289.7	3312.6	3335.4	3344.6
17.5°	3216.6	3230.3	3257.7	3289.7	3298.9
20°	3148.1	3157.2	3189.2	3230.3	3248.6
22.5°	3061.3	3075.0	3111.5	3166.4	3184.6
25°	2965.3	2983.6	3029.3	3088.7	3116.1
27.5°	2869.4	2883.1	2937.9	3006.4	3038.4
30°	2764.3	2782.6	2842.0	2919.6	2956.2
32.5°	2659.2	2672.9	2741.4	2823.7	2864.8
35°	2545.0	2563.2	2627.2	2723.2	2764.3
37.5°	2426.2	2449.0	2513.0	2613.5	2659.2
40°	2307.4	2321.1	2394.2	2494.7	2549.5
42.5°	2184.0	2202.3	2270.8	2380.5	2435.3
45°	2051.5	2074.4	2142.9	2252.5	2307.4
47.5°	1923.6	1946.4	2010.4	2120.0	2170.3
50°	1795.6	1809.3	1873.3	1983.0	2042.4
52.5°	1663.1	1676.8	1736.2	1841.3	1896.2
55°	1530.6	1544.3	1599.2	1704.3	1754.5
57.5°	1393.6	1402.7	1457.5	1553.5	1603.7
60°	1261.1	1265.6	1315.9	1402.7	1453.0
62.5°	1119.4	1124.0	1160.5	1261.1	1306.8
65°	991.5	986.9	1023.5	1101.1	1146.8
67.5°	859.0	859.0	891.0	959.5	996.1
70°	726.5	726.5	753.9	813.3	849.8
72.5°	603.1	603.1	626.0	671.7	699.1
75°	479.8	475.2	498.0	534.6	562.0
77.5°	365.5	365.5	374.7	406.6	424.9
80°	260.4	260.4	265.0	283.3	297.0
82.5°	164.5	164.5	164.5	173.6	178.2
85°	77.7	86.8	86.8	77.7	73.1
87.5°	36.6	36.6	32.0	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)