

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: P385228

Luminaire Tested: **24ID-90-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385228  
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-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

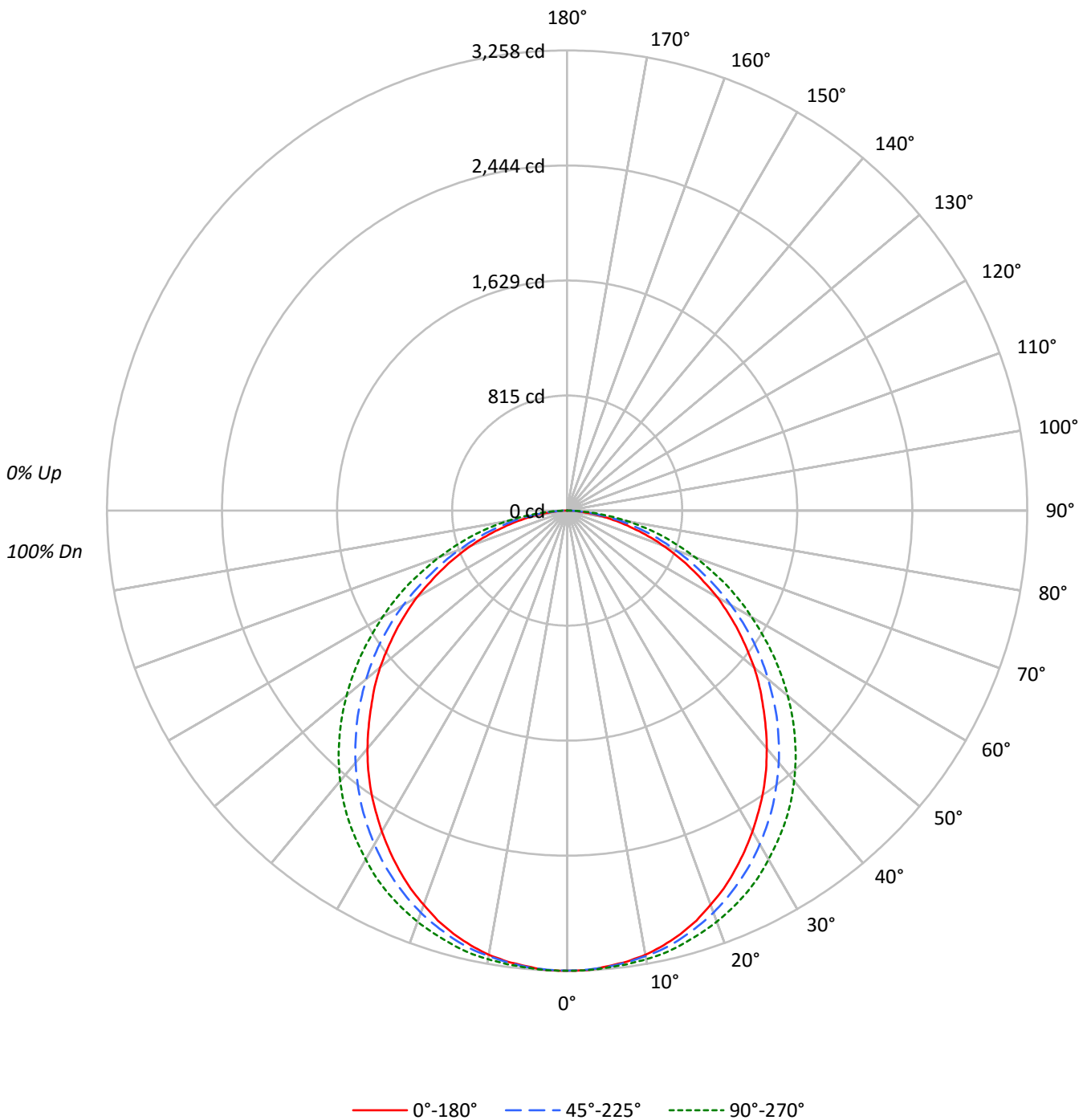
Lumens per Lamp: N/A  
Luminaire Lumens: 9045.3 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	4383	4383	4383
5°	4375	4382	4388
10°	4364	4376	4407
15°	4322	4366	4424
20°	4253	4338	4436
25°	4173	4295	4444
30°	4076	4239	4431
35°	3980	4174	4422
40°	3863	4095	4392
45°	3733	4002	4341
50°	3620	3887	4269
55°	3468	3768	4174
60°	3303	3610	4064
65°	3080	3399	3951
70°	2836	3195	3787
75°	2515	2965	3629
80°	2122	2651	3359
85°	1550	2042	2677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	3.4
10°-20°	884.7	9.8
20°-30°	1334.3	14.8
30°-40°	1593.0	17.6
40°-50°	1628.1	18.0
50°-60°	1443.7	16.0
60°-70°	1076.2	11.9
70°-80°	614.8	6.8
80°-90°	162.2	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°	2527.4	27.9
0°-40°	4120.4	45.6
0°-60°	7192.1	79.5
0°-90°	9045.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9045.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3258	3258	3258	3258	3258	
5°	3240	3240	3244	3244	3249	308
15°	3103	3112	3135	3162	3176	874
25°	2811	2834	2893	2957	2993	1294
35°	2423	2455	2541	2642	2692	1514
45°	1962	2003	2103	2218	2281	1516
55°	1478	1506	1606	1720	1780	1321
65°	967	990	1068	1177	1241	959
75°	484	506	570	657	698	516
85°	100	105	132	164	173	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3257.8	3257.8	3257.8	3257.8	3257.8
2.5°	3257.8	3253.2	3253.2	3253.2	3257.8
5°	3239.6	3239.6	3244.1	3244.1	3248.7
7.5°	3221.3	3221.3	3225.9	3230.4	3239.6
10°	3193.9	3193.9	3203.0	3216.7	3225.9
12.5°	3152.9	3157.4	3175.7	3193.9	3207.6
15°	3102.7	3111.8	3134.6	3162.0	3175.7
17.5°	3043.4	3052.5	3084.4	3120.9	3139.2
20°	2970.3	2988.6	3029.7	3075.3	3098.1
22.5°	2897.3	2915.6	2965.8	3020.5	3047.9
25°	2810.7	2833.5	2892.8	2956.7	2993.2
27.5°	2719.4	2746.8	2815.2	2888.2	2929.3
30°	2623.6	2655.5	2728.5	2810.7	2851.7
32.5°	2523.2	2555.1	2637.3	2728.5	2774.1
35°	2422.8	2454.8	2541.4	2641.8	2692.0
37.5°	2313.3	2345.3	2436.5	2546.0	2600.8
40°	2199.2	2235.7	2331.6	2441.1	2500.4
42.5°	2080.6	2121.7	2217.5	2336.1	2395.4
45°	1962.0	2003.0	2103.4	2217.5	2281.4
47.5°	1847.9	1879.9	1980.2	2098.9	2162.7
50°	1729.3	1756.7	1857.0	1975.7	2039.5
52.5°	1601.5	1638.0	1733.8	1852.5	1911.8
55°	1478.3	1505.7	1606.1	1720.2	1779.5
57.5°	1350.6	1377.9	1473.8	1587.8	1642.6
60°	1227.4	1254.8	1341.4	1455.5	1510.3
62.5°	1090.5	1117.9	1204.6	1323.2	1377.9
65°	967.3	990.1	1067.7	1177.2	1241.1
67.5°	844.1	866.9	939.9	1044.9	1095.1
70°	720.9	739.2	812.2	908.0	962.7
72.5°	602.3	620.5	693.5	780.2	825.9
75°	483.7	506.5	570.3	657.0	698.1
77.5°	374.1	397.0	451.7	529.3	565.8
80°	273.8	292.0	342.2	401.5	433.5
82.5°	182.5	196.2	232.7	282.9	305.7
85°	100.4	104.9	132.3	164.3	173.4
87.5°	41.1	41.1	50.2	54.8	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)