

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: P384052

Luminaire Tested: **24ID-90-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384052
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-L840-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

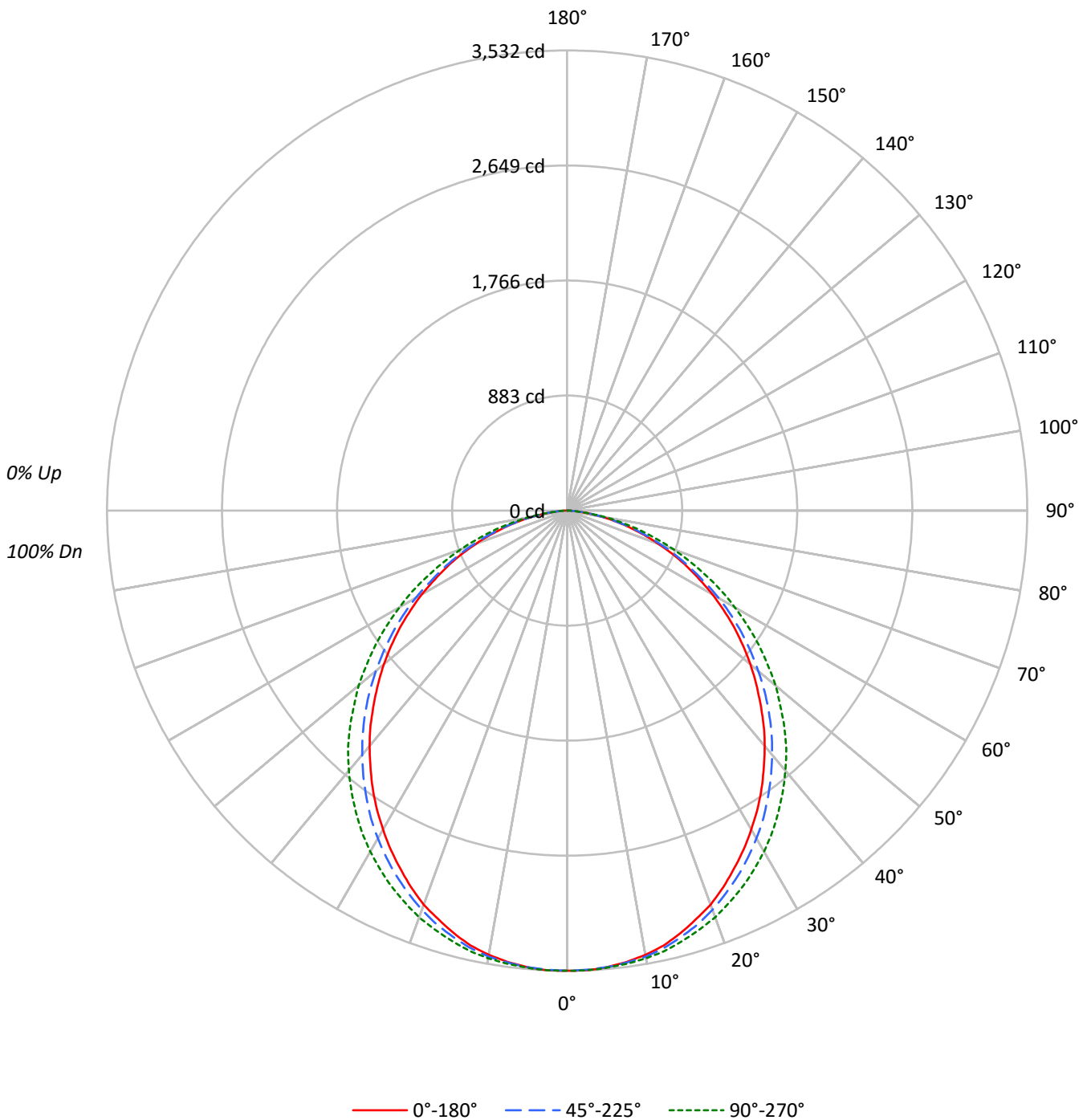
Lumens per Lamp: N/A
Luminaire Lumens: 9323.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.5
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



TEST NUMBER: P384052
CATALOG NUMBER: 24ID-90-L840-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P384052

CATALOG NUMBER: 24ID-90-L840-CFR2

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°	4752	4752	4752
5°	4751	4751	4757
10°	4729	4749	4768
15°	4679	4718	4763
20°	4609	4669	4756
25°	4501	4598	4730
30°	4391	4514	4696
35°	4274	4412	4642
40°	4144	4300	4578
45°	3991	4169	4489
50°	3843	4009	4371
55°	3671	3835	4208
60°	3469	3620	3997
65°	3227	3331	3733
70°	2922	3032	3418
75°	2550	2647	2987
80°	2063	2099	2352
85°	1226	1371	1153



TEST NUMBER: P384052

CATALOG NUMBER: 24ID-90-L840-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	3.6
10°-20°	955.6	10.2
20°-30°	1429.4	15.3
30°-40°	1688.8	18.1
40°-50°	1704.1	18.3
50°-60°	1479.9	15.9
60°-70°	1061.2	11.4
70°-80°	552.8	5.9
80°-90°	116.7	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°	2719.4	29.2
0°-40°	4408.2	47.3
0°-60°	7592.2	81.4
0°-90°	9323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3532	3532	3532	3532	3532	
5°	3518	3513	3518	3518	3522	334
15°	3359	3364	3387	3410	3420	947
25°	3032	3050	3097	3158	3186	1397
35°	2602	2621	2686	2784	2826	1627
45°	2098	2121	2191	2303	2359	1620
55°	1565	1579	1635	1742	1794	1398
65°	1014	1009	1046	1126	1173	1002
75°	490	486	509	547	575	523
85°	79	89	89	79	75	114
90°	0	0	0	0	0	



TEST NUMBER: P384052

CATALOG NUMBER: 24ID-90-L840-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3531.7	3531.7	3531.7	3531.7	3531.7
2.5°	3531.7	3527.0	3527.0	3527.0	3531.7
5°	3517.7	3513.0	3517.7	3517.7	3522.3
7.5°	3494.3	3489.6	3499.0	3503.6	3508.3
10°	3461.6	3461.6	3475.6	3485.0	3489.6
12.5°	3419.6	3419.6	3438.2	3452.3	3461.6
15°	3358.8	3363.5	3386.9	3410.2	3419.6
17.5°	3288.8	3302.8	3330.8	3363.5	3372.8
20°	3218.7	3228.0	3260.7	3302.8	3321.5
22.5°	3129.9	3143.9	3181.3	3237.4	3256.1
25°	3031.8	3050.5	3097.2	3158.0	3186.0
27.5°	2933.7	2947.7	3003.8	3073.9	3106.6
30°	2826.3	2845.0	2905.7	2985.1	3022.5
32.5°	2718.8	2732.8	2802.9	2887.0	2929.0
35°	2602.0	2620.7	2686.1	2784.2	2826.3
37.5°	2480.6	2503.9	2569.3	2672.1	2718.8
40°	2359.1	2373.1	2447.9	2550.7	2606.7
42.5°	2233.0	2251.7	2321.7	2433.9	2489.9
45°	2097.5	2120.9	2190.9	2303.1	2359.1
47.5°	1966.7	1990.1	2055.5	2167.6	2219.0
50°	1835.9	1849.9	1915.3	2027.4	2088.2
52.5°	1700.4	1714.5	1775.2	1882.6	1938.7
55°	1565.0	1579.0	1635.0	1742.5	1793.9
57.5°	1424.8	1434.2	1490.2	1588.3	1639.7
60°	1289.3	1294.0	1345.4	1434.2	1485.5
62.5°	1144.5	1149.2	1186.6	1289.3	1336.1
65°	1013.7	1009.1	1046.4	1125.8	1172.6
67.5°	878.2	878.2	910.9	981.0	1018.4
70°	742.8	742.8	770.8	831.5	868.9
72.5°	616.6	616.6	640.0	686.7	714.7
75°	490.5	485.8	509.2	546.6	574.6
77.5°	373.7	373.7	383.1	415.8	434.5
80°	266.3	266.3	270.9	289.6	303.6
82.5°	168.2	168.2	168.2	177.5	182.2
85°	79.4	88.8	88.8	79.4	74.7
87.5°	37.4	37.4	32.7	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)