

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: P385216

Luminaire Tested: **24ID-75-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385216  
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-75-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

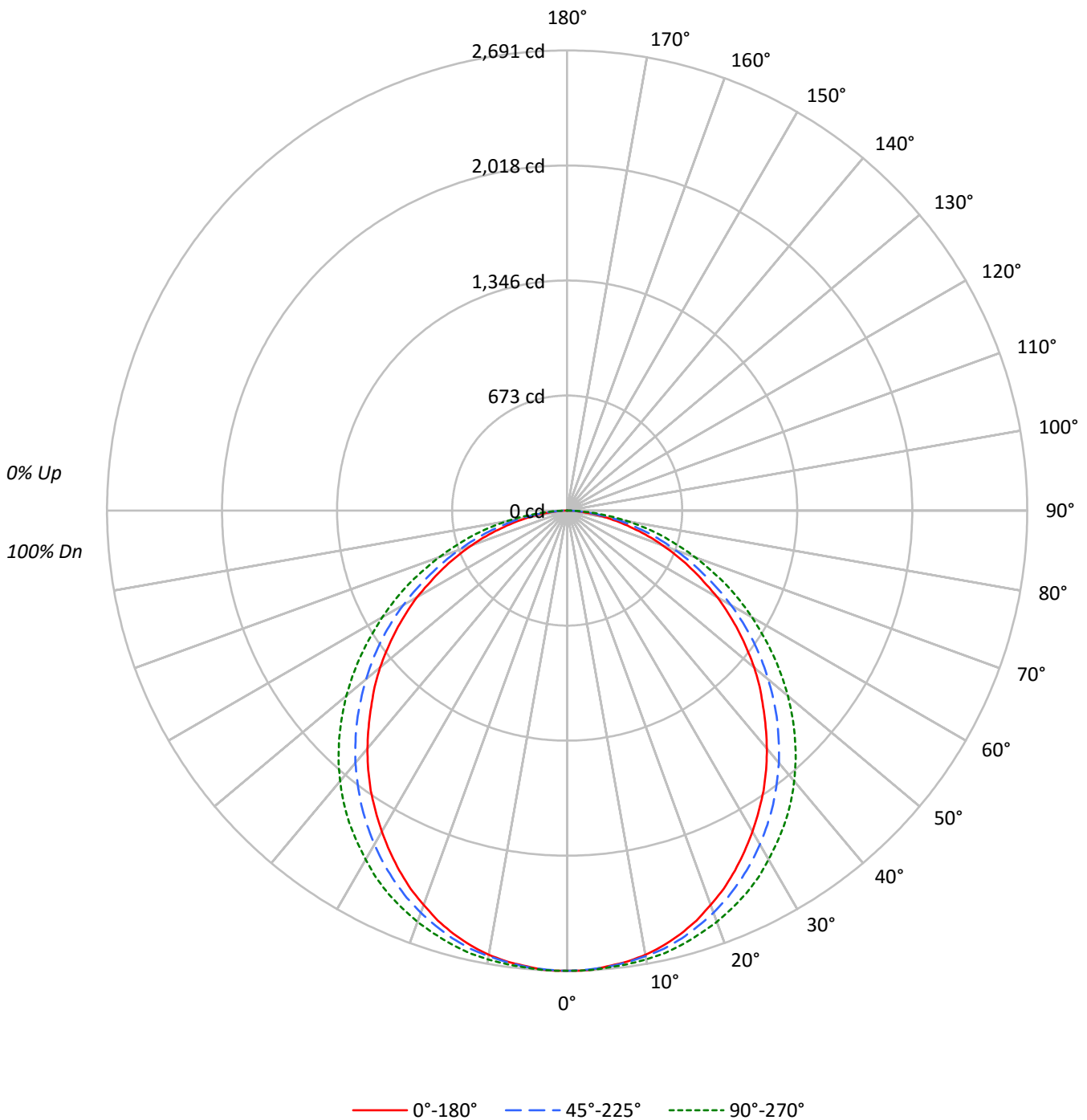
Lumens per Lamp: N/A  
Luminaire Lumens: 7472.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.8  
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



TEST NUMBER: P385216  
CATALOG NUMBER: 24ID-75-L840-CNC

### Luminous Intensity Polar Plot





TEST NUMBER: P385216

CATALOG NUMBER: 24ID-75-L840-CNC

**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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84					84			
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50					50			
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

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

	0°	45°	90°
0°	3621	3621	3621
5°	3615	3620	3625
10°	3605	3615	3641
15°	3570	3607	3654
20°	3514	3584	3665
25°	3447	3548	3671
30°	3367	3502	3660
35°	3288	3449	3653
40°	3191	3383	3628
45°	3084	3307	3586
50°	2990	3211	3527
55°	2865	3112	3449
60°	2729	2982	3358
65°	2544	2808	3264
70°	2343	2639	3129
75°	2077	2450	2998
80°	1753	2190	2775
85°	1280	1687	2211



TEST NUMBER: P385216

CATALOG NUMBER: 24ID-75-L840-CNC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.8	3.4
10°-20°	730.9	9.8
20°-30°	1102.3	14.8
30°-40°	1316.0	17.6
40°-50°	1345.0	18.0
50°-60°	1192.6	16.0
60°-70°	889.1	11.9
70°-80°	507.9	6.8
80°-90°	134.0	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°	2088.0	27.9
0°-40°	3403.9	45.6
0°-60°	5941.6	79.5
0°-90°	7472.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7472.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2691	2691	2691	2691	2691	
5°	2676	2676	2680	2680	2684	254
15°	2563	2571	2590	2612	2624	722
25°	2322	2341	2390	2443	2473	1069
35°	2002	2028	2100	2182	2224	1250
45°	1621	1655	1738	1832	1885	1252
55°	1221	1244	1327	1421	1470	1091
65°	799	818	882	972	1025	792
75°	400	418	471	543	577	426
85°	83	87	109	136	143	104
90°	0	0	0	0	0	



TEST NUMBER: P385216

CATALOG NUMBER: 24ID-75-L840-CNC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2691.3	2691.3	2691.3	2691.3	2691.3
2.5°	2691.3	2687.6	2687.6	2687.6	2691.3
5°	2676.3	2676.3	2680.0	2680.0	2683.8
7.5°	2661.2	2661.2	2664.9	2668.7	2676.3
10°	2638.6	2638.6	2646.1	2657.4	2664.9
12.5°	2604.6	2608.4	2623.5	2638.6	2649.9
15°	2563.2	2570.7	2589.6	2612.2	2623.5
17.5°	2514.2	2521.7	2548.1	2578.3	2593.3
20°	2453.9	2468.9	2502.9	2540.6	2559.4
22.5°	2393.6	2408.6	2450.1	2495.3	2517.9
25°	2321.9	2340.8	2389.8	2442.6	2472.7
27.5°	2246.5	2269.2	2325.7	2386.0	2419.9
30°	2167.4	2193.8	2254.1	2321.9	2355.9
32.5°	2084.5	2110.8	2178.7	2254.1	2291.8
35°	2001.5	2027.9	2099.5	2182.5	2223.9
37.5°	1911.1	1937.5	2012.8	2103.3	2148.5
40°	1816.8	1847.0	1926.2	2016.6	2065.6
42.5°	1718.8	1752.8	1831.9	1929.9	1978.9
45°	1620.8	1654.8	1737.7	1831.9	1884.7
47.5°	1526.6	1553.0	1635.9	1733.9	1786.7
50°	1428.6	1451.2	1534.1	1632.1	1684.9
52.5°	1323.1	1353.2	1432.4	1530.4	1579.4
55°	1221.3	1243.9	1326.8	1421.1	1470.1
57.5°	1115.7	1138.4	1217.5	1311.7	1357.0
60°	1014.0	1036.6	1108.2	1202.4	1247.7
62.5°	900.9	923.5	995.1	1093.1	1138.4
65°	799.1	818.0	882.0	972.5	1025.3
67.5°	697.3	716.2	776.5	863.2	904.6
70°	595.6	610.6	670.9	750.1	795.3
72.5°	497.6	512.6	572.9	644.6	682.3
75°	399.6	418.4	471.2	542.8	576.7
77.5°	309.1	327.9	373.2	437.2	467.4
80°	226.2	241.2	282.7	331.7	358.1
82.5°	150.8	162.1	192.2	233.7	252.5
85°	82.9	86.7	109.3	135.7	143.2
87.5°	33.9	33.9	41.5	45.2	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)