

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: P385368

Luminaire Tested: **24ID-55-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L840-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

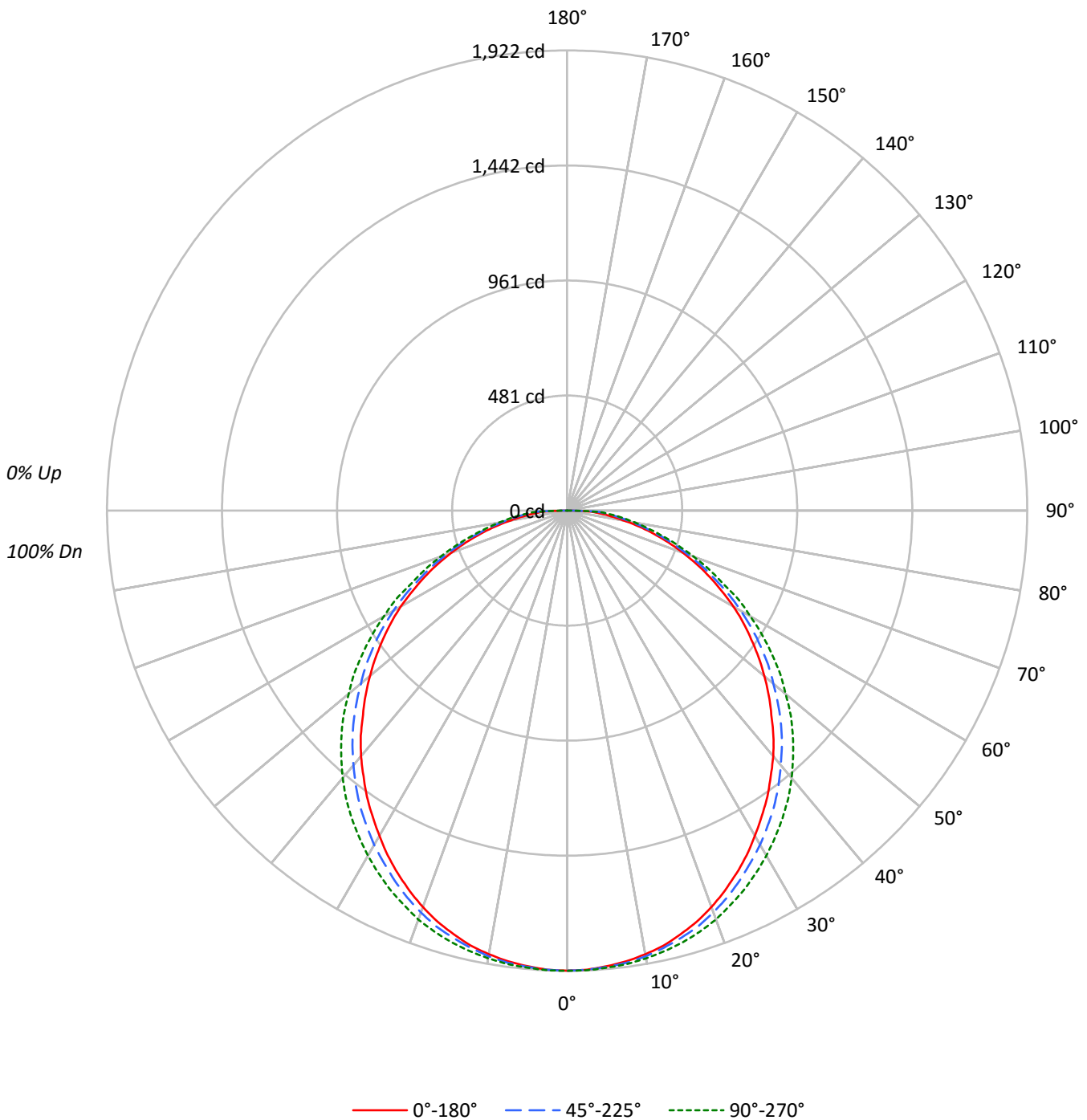
Lumens per Lamp: N/A
Luminaire Lumens: 5574.6 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (A_{in}): 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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2586	2586	2586
5°	2571	2564	2569
10°	2552	2543	2557
15°	2524	2513	2544
20°	2486	2477	2526
25°	2436	2430	2498
30°	2379	2383	2467
35°	2327	2332	2434
40°	2273	2271	2394
45°	2203	2210	2342
50°	2145	2130	2269
55°	2080	2053	2188
60°	2015	1955	2079
65°	1923	1831	1934
70°	1811	1698	1800
75°	1683	1553	1644
80°	1508	1406	1510
85°	1425	1335	1444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	3.3
10°-20°	521.2	9.3
20°-30°	786.5	14.1
30°-40°	944.0	16.9
40°-50°	977.0	17.5
50°-60°	885.1	15.9
60°-70°	681.9	12.2
70°-80°	421.9	7.6
80°-90°	175.2	3.1
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°	1489.5	26.7
0°-40°	2433.5	43.7
0°-60°	4295.5	77.1
0°-90°	5574.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5574.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1910	1910	1913	1913	1916	181
15°	1832	1835	1847	1858	1867	517
25°	1673	1678	1705	1734	1748	770
35°	1458	1470	1508	1548	1568	912
45°	1206	1223	1264	1310	1334	933
55°	939	954	986	1029	1044	841
65°	658	664	684	713	716	651
75°	374	383	397	415	415	396
85°	136	151	174	186	183	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.0	1922.0	1922.0	1922.0	1922.0
2.5°	1919.1	1919.1	1919.1	1919.1	1922.0
5°	1910.4	1910.4	1913.3	1913.3	1916.2
7.5°	1898.8	1898.8	1904.6	1904.6	1910.4
10°	1881.4	1884.3	1890.1	1893.0	1898.8
12.5°	1861.1	1861.1	1869.8	1878.5	1884.3
15°	1832.1	1835.0	1846.6	1858.2	1866.9
17.5°	1800.3	1803.2	1820.5	1832.1	1843.7
20°	1762.6	1765.5	1785.8	1803.2	1817.6
22.5°	1719.1	1724.9	1748.1	1771.3	1782.9
25°	1672.7	1678.5	1704.6	1733.6	1748.1
27.5°	1623.4	1632.1	1658.2	1690.1	1707.5
30°	1568.3	1579.9	1611.8	1646.6	1664.0
32.5°	1513.3	1524.9	1559.6	1600.2	1617.6
35°	1458.2	1469.8	1507.5	1548.0	1568.3
37.5°	1397.3	1408.9	1449.5	1493.0	1516.2
40°	1339.3	1350.9	1388.6	1437.9	1458.2
42.5°	1275.5	1287.1	1327.7	1374.1	1397.3
45°	1206.0	1223.4	1263.9	1310.3	1333.5
47.5°	1142.2	1156.7	1194.4	1243.7	1266.8
50°	1075.5	1090.0	1124.8	1174.1	1191.5
52.5°	1008.8	1023.3	1058.1	1104.5	1121.9
55°	939.3	953.8	985.6	1029.1	1043.6
57.5°	872.6	884.2	913.2	953.8	965.4
60°	803.0	814.6	837.8	875.5	884.2
62.5°	727.6	736.3	762.4	797.2	808.8
65°	658.1	663.9	684.2	713.1	716.0
67.5°	585.6	591.4	611.7	632.0	640.7
70°	513.1	521.8	536.3	556.6	562.4
72.5°	443.5	452.2	466.7	484.1	487.0
75°	374.0	382.7	397.2	414.6	414.6
77.5°	307.3	316.0	333.4	347.9	347.9
80°	240.6	255.1	272.5	287.0	287.0
82.5°	185.5	197.1	220.3	231.9	231.9
85°	136.3	150.7	173.9	185.5	182.6
87.5°	98.6	113.1	133.4	142.0	139.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)