

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: P385261

Luminaire Tested: **14ID-55-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385261
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: 14ID-55-L850-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

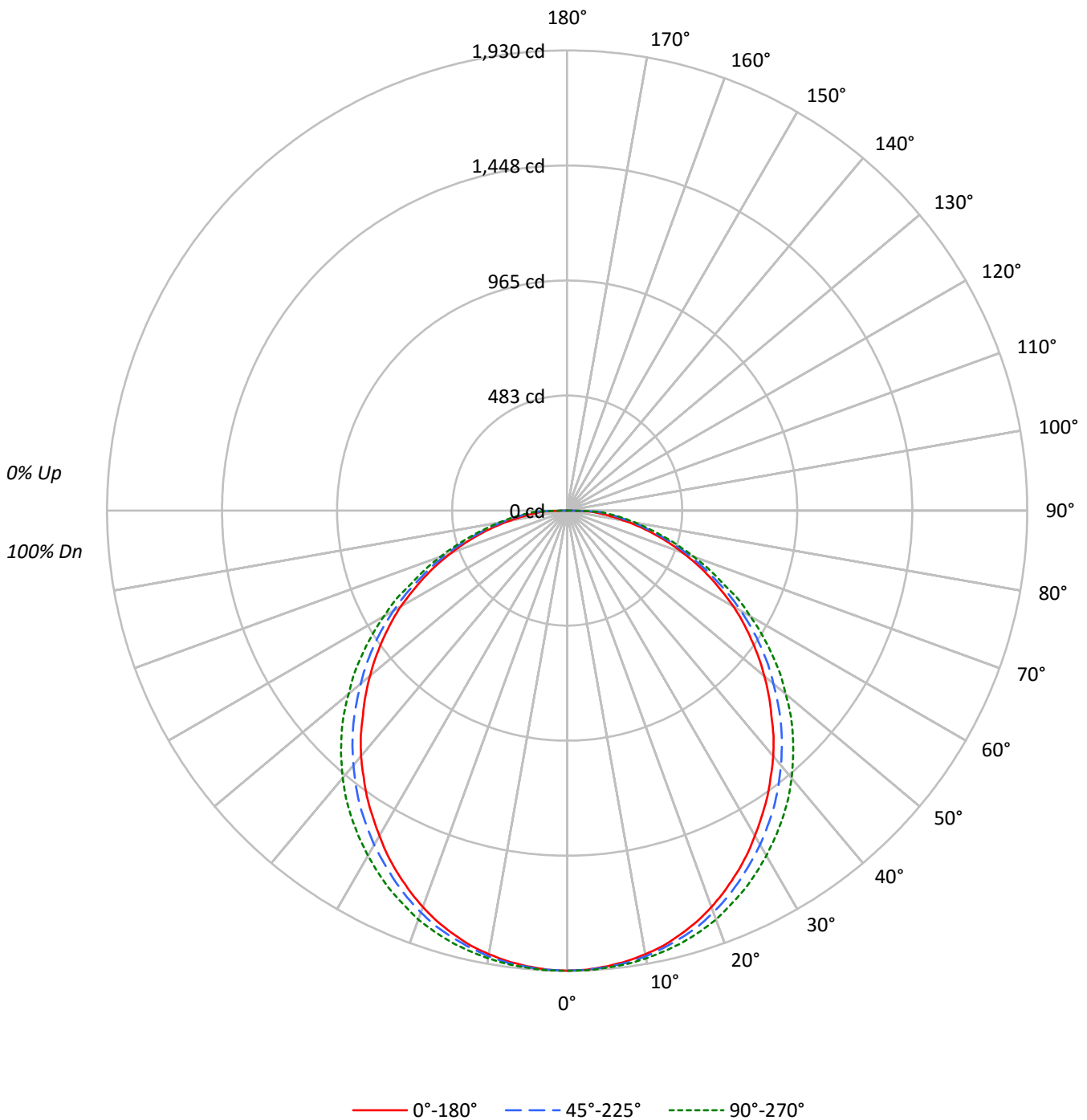
Lumens per Lamp: N/A
Luminaire Lumens: 5598.2 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.2
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: P385261
CATALOG NUMBER: 14ID-55-L850-CNV

Luminous Intensity Polar Plot





TEST NUMBER: P385261

CATALOG NUMBER: 14ID-55-L850-CNV

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°	5194	5194	5194
5°	5164	5124	5123
10°	5125	5055	5062
15°	5069	4970	5000
20°	4993	4874	4928
25°	4893	4756	4836
30°	4779	4635	4736
35°	4674	4508	4633
40°	4565	4360	4513
45°	4425	4210	4368
50°	4308	4023	4179
55°	4177	3837	3971
60°	4048	3607	3708
65°	3862	3325	3373
70°	3638	3017	3048
75°	3379	2675	2668
80°	3028	2311	2296
85°	2861	2010	1949



TEST NUMBER: P385261

CATALOG NUMBER: 14ID-55-L850-CNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	3.3
10°-20°	523.4	9.3
20°-30°	789.8	14.1
30°-40°	948.0	16.9
40°-50°	981.1	17.5
50°-60°	888.8	15.9
60°-70°	684.8	12.2
70°-80°	423.7	7.6
80°-90°	176.0	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°	1495.8	26.7
0°-40°	2443.8	43.7
0°-60°	4313.7	77.1
0°-90°	5598.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5598.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1918	1918	1921	1921	1924	182
15°	1840	1843	1854	1866	1875	519
25°	1680	1686	1712	1741	1756	774
35°	1464	1476	1514	1555	1575	915
45°	1211	1228	1269	1316	1339	937
55°	943	958	990	1034	1048	845
65°	661	667	687	716	719	653
75°	376	384	399	416	416	398
85°	137	151	175	186	183	148
90°	0	0	0	0	0	



TEST NUMBER: P385261

CATALOG NUMBER: 14ID-55-L850-CNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.1	1930.1	1930.1	1930.1	1930.1
2.5°	1927.2	1927.2	1927.2	1927.2	1930.1
5°	1918.5	1918.5	1921.4	1921.4	1924.3
7.5°	1906.9	1906.9	1912.7	1912.7	1918.5
10°	1889.4	1892.3	1898.1	1901.0	1906.9
12.5°	1869.0	1869.0	1877.7	1886.5	1892.3
15°	1839.9	1842.8	1854.5	1866.1	1874.8
17.5°	1807.9	1810.8	1828.3	1839.9	1851.5
20°	1770.0	1772.9	1793.3	1810.8	1825.3
22.5°	1726.4	1732.2	1755.5	1778.8	1790.4
25°	1679.8	1685.6	1711.8	1740.9	1755.5
27.5°	1630.3	1639.0	1665.2	1697.2	1714.7
30°	1575.0	1586.6	1618.6	1653.6	1671.0
32.5°	1519.7	1531.3	1566.2	1607.0	1624.5
35°	1464.3	1476.0	1513.8	1554.6	1575.0
37.5°	1403.2	1414.9	1455.6	1499.3	1522.6
40°	1345.0	1356.6	1394.5	1444.0	1464.3
42.5°	1280.9	1292.6	1333.3	1379.9	1403.2
45°	1211.1	1228.5	1269.3	1315.9	1339.2
47.5°	1147.0	1161.6	1199.4	1248.9	1272.2
50°	1080.1	1094.6	1129.6	1179.0	1196.5
52.5°	1013.1	1027.7	1062.6	1109.2	1126.6
55°	943.2	957.8	989.8	1033.5	1048.0
57.5°	876.3	887.9	917.0	957.8	969.4
60°	806.4	818.1	841.3	879.2	887.9
62.5°	730.7	739.5	765.7	800.6	812.2
65°	660.8	666.7	687.1	716.2	719.1
67.5°	588.1	593.9	614.3	634.6	643.4
70°	515.3	524.0	538.6	559.0	564.8
72.5°	445.4	454.2	468.7	486.2	489.1
75°	375.5	384.3	398.8	416.3	416.3
77.5°	308.6	317.3	334.8	349.3	349.3
80°	241.6	256.2	273.7	288.2	288.2
82.5°	186.3	198.0	221.3	232.9	232.9
85°	136.8	151.4	174.7	186.3	183.4
87.5°	99.0	113.5	133.9	142.7	139.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)