

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: P384189

Luminaire Tested: **24ID-50-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-50-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

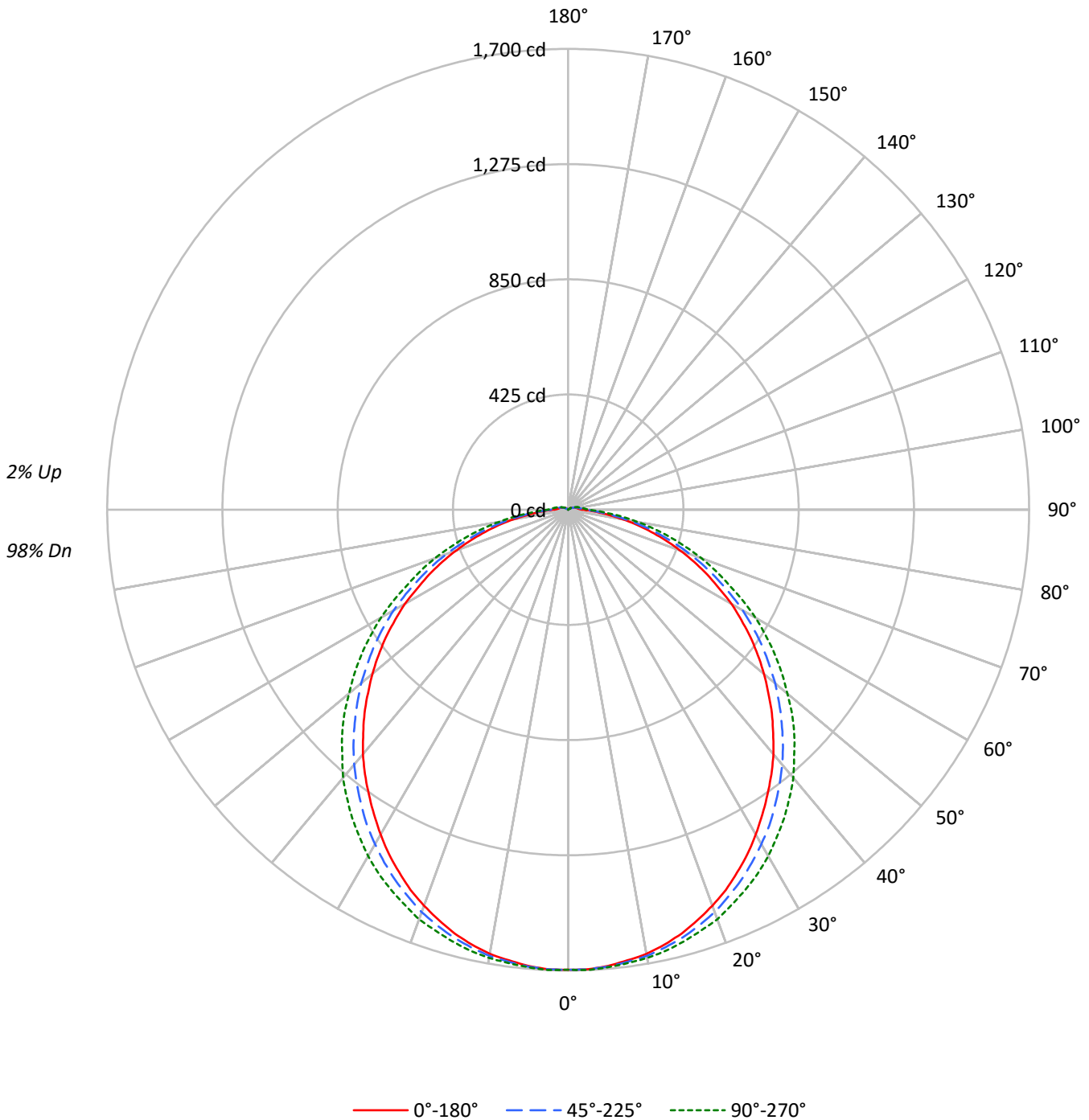
Lumens per Lamp: N/A
Luminaire Lumens: 5026.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 44
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



TEST NUMBER: P384189
CATALOG NUMBER: 24ID-50-L850-CFD1

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2283	2283	2283
5°	2278	2276	2280
10°	2265	2266	2277
15°	2241	2248	2271
20°	2209	2226	2268
25°	2169	2194	2252
30°	2124	2158	2238
35°	2075	2119	2216
40°	2032	2080	2192
45°	1981	2029	2155
50°	1926	1981	2104
55°	1869	1923	2059
60°	1807	1860	2002
65°	1724	1764	1906
70°	1631	1672	1844
75°	1524	1546	1743
80°	1412	1405	1629
85°	1367	1307	1546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	3.2
10°-20°	460.7	9.2
20°-30°	695.6	13.8
30°-40°	833.4	16.6
40°-50°	861.7	17.1
50°-60°	780.3	15.5
60°-70°	603.8	12.0
70°-80°	370.9	7.4
80°-90°	147.4	2.9
90°-100°	53.8	1.1
100°-110°	33.0	0.7
110°-120°	17.0	0.3
120°-130°	7.2	0.1
130°-140°	0.5	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°	1317.0	26.2
0°-40°	2150.5	42.8
0°-60°	3792.5	75.5
0°-90°	4914.6	97.8
90°-120°	103.8	2.1
90°-150°	111.5	2.2
90°-180°	111.0	2.2
0°-180°	5026.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1689	1689	1692	1692	1694	160
15°	1618	1621	1633	1644	1649	456
25°	1475	1486	1508	1534	1547	680
35°	1282	1297	1330	1366	1389	802
45°	1063	1075	1114	1159	1180	819
55°	820	838	872	910	930	733
65°	566	578	606	637	652	560
75°	316	331	346	370	387	337
85°	110	117	127	140	148	109
90°	51	59	64	71	76	30
95°	38	43	48	54	59	31
105°	28	28	31	33	36	30
115°	18	15	15	18	20	18
125°	10	8	5	8	10	9
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384189

CATALOG NUMBER: 24ID-50-L850-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.0	1697.0	1697.0	1697.0	1697.0
2.5°	1697.0	1694.5	1697.0	1697.0	1699.6
5°	1689.4	1689.4	1691.9	1691.9	1694.5
7.5°	1676.7	1676.7	1681.8	1684.3	1686.9
10°	1663.9	1663.9	1671.6	1674.1	1679.2
12.5°	1643.5	1646.1	1653.7	1661.4	1666.5
15°	1618.1	1620.6	1633.3	1643.5	1648.6
17.5°	1587.5	1592.6	1607.9	1623.1	1628.2
20°	1554.3	1562.0	1579.8	1597.7	1607.9
22.5°	1518.7	1523.8	1544.2	1567.1	1577.3
25°	1475.4	1485.5	1508.5	1534.0	1546.7
27.5°	1432.0	1442.2	1467.7	1498.3	1513.6
30°	1383.6	1393.8	1424.4	1457.5	1475.4
32.5°	1332.7	1345.4	1381.1	1414.2	1432.0
35°	1281.7	1297.0	1330.1	1365.8	1388.7
37.5°	1230.7	1243.5	1279.2	1317.4	1340.3
40°	1177.2	1190.0	1228.2	1266.4	1291.9
42.5°	1118.6	1133.9	1172.1	1212.9	1233.3
45°	1062.6	1075.3	1113.5	1159.4	1179.8
47.5°	1001.4	1019.2	1054.9	1098.2	1121.2
50°	942.8	958.1	996.3	1037.1	1054.9
52.5°	881.6	896.9	932.6	973.4	993.8
55°	820.5	838.3	871.5	909.7	930.1
57.5°	756.8	774.6	807.8	840.9	863.8
60°	695.6	713.5	744.0	777.2	797.6
62.5°	626.8	642.1	675.2	710.9	726.2
65°	565.7	578.4	606.5	637.0	652.3
67.5°	502.0	517.3	542.7	570.8	588.6
70°	438.3	456.1	476.5	502.0	522.4
72.5°	377.1	392.4	410.2	435.7	453.6
75°	316.0	331.3	346.5	369.5	387.3
77.5°	262.5	270.1	285.4	305.8	323.6
80°	203.8	214.0	226.8	247.2	259.9
82.5°	152.9	163.1	173.3	188.6	201.3
85°	109.6	117.2	127.4	140.1	147.8
87.5°	73.9	81.5	89.2	99.4	107.0
90°	51.0	58.6	63.7	71.3	76.4
92.5°	43.3	48.4	53.5	58.6	63.7
95°	38.2	43.3	48.4	53.5	58.6
97.5°	35.7	38.2	43.3	48.4	51.0
100°	33.1	35.7	38.2	43.3	45.9
102.5°	30.6	30.6	35.7	38.2	40.8
105°	28.0	28.0	30.6	33.1	35.7
107.5°	25.5	25.5	28.0	28.0	33.1
110°	22.9	20.4	22.9	22.9	28.0



TEST NUMBER: P384189

CATALOG NUMBER: 24ID-50-L850-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.4	17.8	20.4	20.4	22.9
115°	17.8	15.3	15.3	17.8	20.4
117.5°	15.3	12.7	12.7	12.7	17.8
120°	15.3	12.7	10.2	10.2	15.3
122.5°	12.7	10.2	7.6	10.2	12.7
125°	10.2	7.6	5.1	7.6	10.2
127.5°	7.6	7.6	2.5	5.1	7.6
130°	7.6	5.1	2.5	5.1	5.1
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)