

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: P413202

Luminaire Tested: **24PD-45-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-45-PC3-L850
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

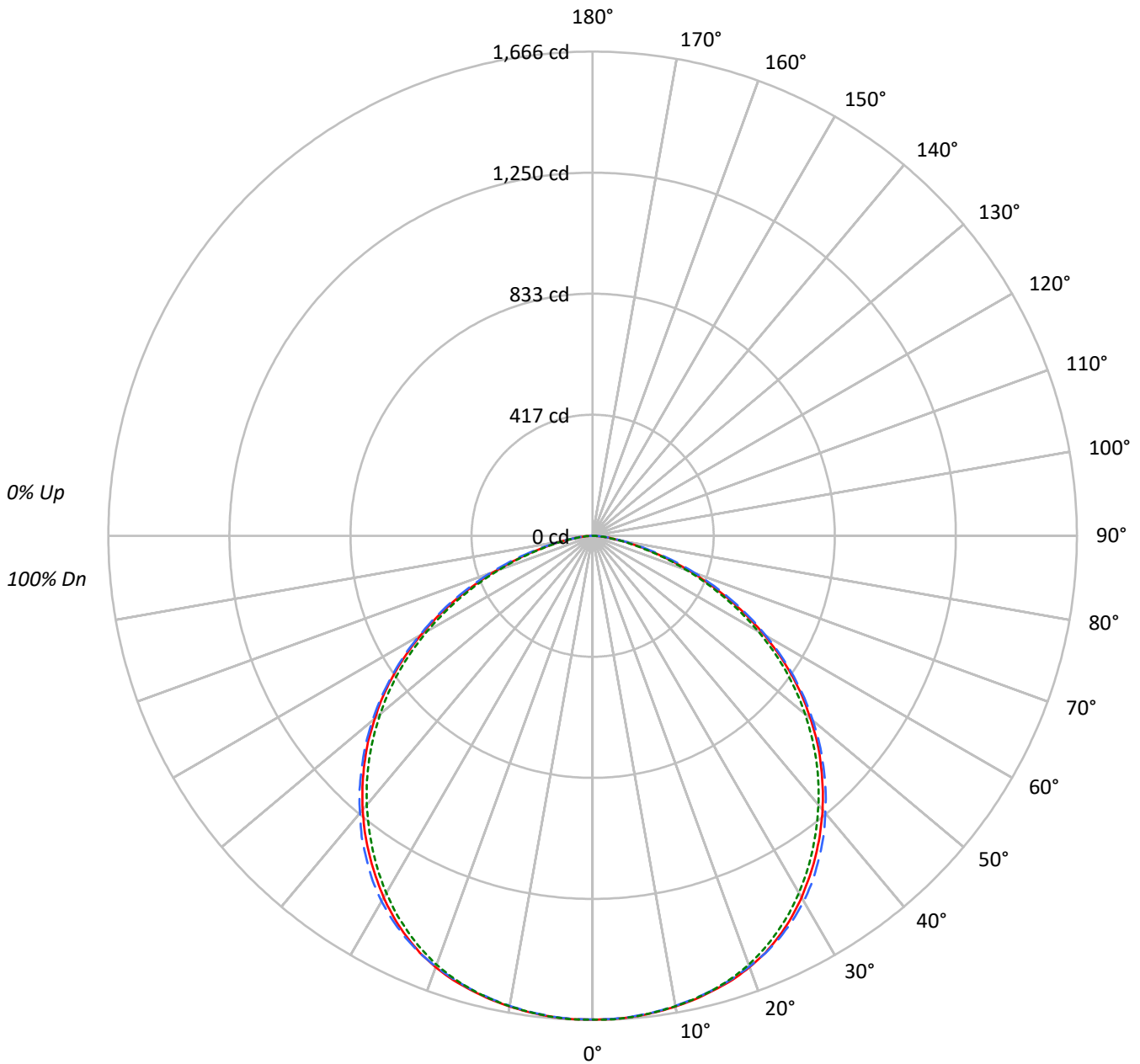
Lumens per Lamp: N/A
Luminaire Lumens: 4550.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2240	2240	2240
5°	2243	2242	2243
10°	2247	2244	2246
15°	2254	2250	2251
20°	2262	2259	2249
25°	2256	2264	2232
30°	2233	2257	2205
35°	2200	2228	2167
40°	2162	2188	2123
45°	2113	2136	2069
50°	2047	2070	1997
55°	1963	1981	1905
60°	1833	1854	1769
65°	1652	1693	1587
70°	1402	1464	1346
75°	1086	1165	1036
80°	807	843	732
85°	499	534	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	3.5
10°-20°	456.5	10.0
20°-30°	699.1	15.4
30°-40°	841.0	18.5
40°-50°	857.6	18.8
50°-60°	743.5	16.3
60°-70°	515.5	11.3
70°-80°	235.4	5.2
80°-90°	43.5	1.0
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°	1313.5	28.9
0°-40°	2154.5	47.4
0°-60°	3755.6	82.5
0°-90°	4550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1660	1660	1660	1659	1661	158
15°	1618	1618	1615	1614	1616	457
25°	1519	1524	1525	1512	1504	700
35°	1340	1354	1357	1339	1319	838
45°	1110	1124	1122	1107	1087	856
55°	837	842	844	824	812	746
65°	519	530	532	514	498	513
75°	209	220	224	217	199	228
85°	32	33	35	33	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1664.6	1664.6	1664.6	1664.6	1664.6
2.5°	1664.6	1664.6	1663.7	1662.8	1665.5
5°	1660.5	1660.5	1659.6	1658.6	1660.9
7.5°	1654.0	1653.6	1652.6	1651.7	1653.1
10°	1644.8	1644.3	1642.5	1642.0	1643.9
12.5°	1633.3	1632.8	1630.0	1630.0	1631.4
15°	1618.5	1618.0	1615.3	1613.9	1615.7
17.5°	1601.9	1601.4	1598.2	1594.5	1595.5
20°	1579.8	1579.8	1577.5	1571.9	1570.6
22.5°	1553.0	1554.4	1554.4	1543.8	1539.7
25°	1519.4	1523.5	1524.9	1511.5	1503.7
27.5°	1481.1	1487.6	1491.2	1474.2	1464.0
30°	1437.3	1447.9	1452.5	1434.1	1419.3
32.5°	1389.3	1402.7	1408.2	1390.3	1371.4
35°	1339.5	1353.8	1356.6	1339.1	1319.2
37.5°	1286.5	1301.3	1305.0	1289.3	1264.8
40°	1230.7	1245.5	1245.5	1232.6	1208.6
42.5°	1171.7	1187.4	1186.9	1171.2	1149.6
45°	1110.4	1124.2	1122.4	1107.1	1087.3
47.5°	1047.2	1056.0	1058.3	1040.3	1021.4
50°	978.0	986.8	989.1	968.8	954.0
52.5°	909.8	915.3	918.5	895.0	884.4
55°	836.9	842.0	844.3	823.6	812.0
57.5°	759.9	766.4	769.1	748.4	735.5
60°	681.1	688.0	688.9	669.5	657.5
62.5°	600.8	610.1	611.9	592.5	578.2
65°	518.8	529.8	531.7	513.7	498.5
67.5°	436.7	451.4	451.9	437.1	419.2
70°	356.4	372.6	372.1	359.7	342.1
72.5°	279.9	294.7	297.9	286.4	269.3
75°	208.9	220.4	224.1	216.7	199.2
77.5°	148.5	159.1	162.3	155.4	142.5
80°	104.2	104.7	108.8	103.3	94.5
82.5°	64.6	63.6	65.0	62.7	57.6
85°	32.3	33.2	34.6	32.7	30.0
87.5°	11.1	11.5	12.5	12.5	11.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)