

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: P412373

Luminaire Tested: **22PD-30-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-30-PB1-L840
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

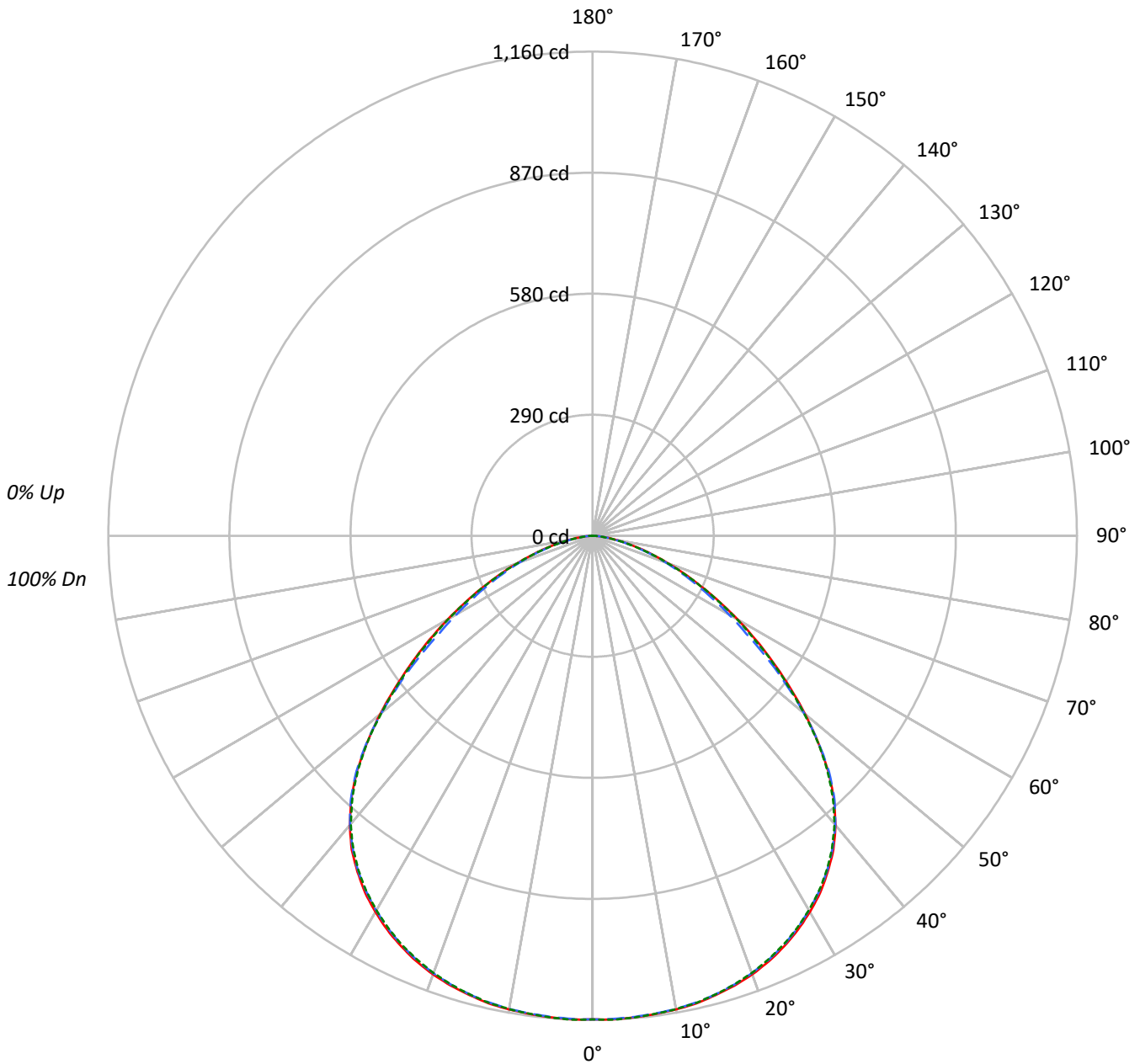
Lumens per Lamp: N/A
Luminaire Lumens: 3042.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73			73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63			63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54			54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47			47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42			42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37			37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33			33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30			30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3118	3118	3118
5°	3128	3125	3129
10°	3148	3145	3146
15°	3174	3169	3169
20°	3203	3194	3192
25°	3223	3214	3211
30°	3234	3221	3219
35°	3227	3218	3212
40°	3179	3176	3165
45°	3039	3049	3025
50°	2782	2767	2764
55°	2472	2385	2456
60°	2156	2025	2143
65°	1827	1729	1819
70°	1511	1449	1496
75°	1222	1144	1174
80°	883	855	849
85°	574	574	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.6
10°-20°	321.5	10.6
20°-30°	498.9	16.4
30°-40°	611.9	20.1
40°-50°	611.6	20.1
50°-60°	463.3	15.2
60°-70°	277.9	9.1
70°-80°	122.3	4.0
80°-90°	24.3	0.8
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°	930.7	30.6
0°-40°	1542.6	50.7
0°-60°	2617.5	86.0
0°-90°	3042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1158	1156	1157	1156	1158	110
15°	1139	1138	1138	1137	1138	322
25°	1086	1084	1082	1081	1081	500
35°	982	982	980	979	978	614
45°	799	800	801	799	795	611
55°	527	516	508	515	524	472
65°	287	277	272	276	286	287
75°	118	115	110	112	113	125
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.7	1158.7	1158.7	1158.7	<i>1158.7</i>
2.5°	<i>1159.8</i>	<i>1158.0</i>	<i>1158.3</i>	<i>1158.3</i>	<i>1160.5</i>
5°	1158.0	1156.5	1156.9	1156.5	<i>1158.3</i>
7.5°	1155.5	1154.0	1154.4	1154.0	<i>1155.1</i>
10°	1152.2	1150.8	1150.8	1150.1	<i>1151.5</i>
12.5°	1147.9	1146.2	1145.4	1145.1	<i>1146.2</i>
15°	1139.3	1138.3	1137.6	1136.8	<i>1137.6</i>
17.5°	1130.0	1128.2	1127.5	1126.1	<i>1127.5</i>
20°	1118.6	1116.1	1115.3	1114.3	<i>1114.6</i>
22.5°	1103.5	1101.4	1100.3	1098.5	<i>1099.2</i>
25°	1085.6	1083.5	1082.4	1080.6	<i>1081.3</i>
27.5°	1064.8	1063.4	1060.9	1059.4	<i>1059.8</i>
30°	1040.8	1039.4	1036.5	1035.8	<i>1035.8</i>
32.5°	1014.3	1012.5	1010.0	1009.3	<i>1008.9</i>
35°	982.4	982.1	979.6	978.8	<i>977.8</i>
37.5°	947.7	946.9	944.1	943.4	<i>942.3</i>
40°	905.0	904.3	904.0	902.5	<i>901.1</i>
42.5°	855.6	856.7	857.4	854.5	<i>851.6</i>
45°	798.6	799.7	801.1	799.0	<i>795.0</i>
47.5°	732.0	736.3	734.1	735.6	<i>731.6</i>
50°	664.6	664.6	661.0	662.5	<i>660.3</i>
52.5°	594.0	588.3	584.0	586.9	<i>589.7</i>
55°	527.0	515.6	508.4	515.2	<i>523.5</i>
57.5°	462.9	449.3	436.0	446.8	<i>456.8</i>
60°	400.6	384.8	376.2	384.1	<i>398.1</i>
62.5°	341.4	330.0	321.4	327.5	<i>339.3</i>
65°	287.0	277.0	271.6	276.2	<i>285.6</i>
67.5°	237.2	230.4	225.0	228.9	<i>236.1</i>
70°	192.0	190.2	184.2	186.0	<i>190.2</i>
72.5°	150.8	150.5	145.1	146.5	<i>149.0</i>
75°	117.5	115.0	110.0	111.8	<i>112.9</i>
77.5°	83.1	84.2	79.5	80.6	<i>80.6</i>
80°	57.0	58.8	55.2	54.5	<i>54.8</i>
82.5°	36.2	36.2	35.8	35.5	<i>34.4</i>
85°	18.6	19.3	18.6	17.9	<i>17.9</i>
87.5°	7.2	7.2	7.2	6.8	<i>6.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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







(END OF REPORT)