

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: P412657

Luminaire Tested: **14PD-40-PP3-L940**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PP3-L940
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

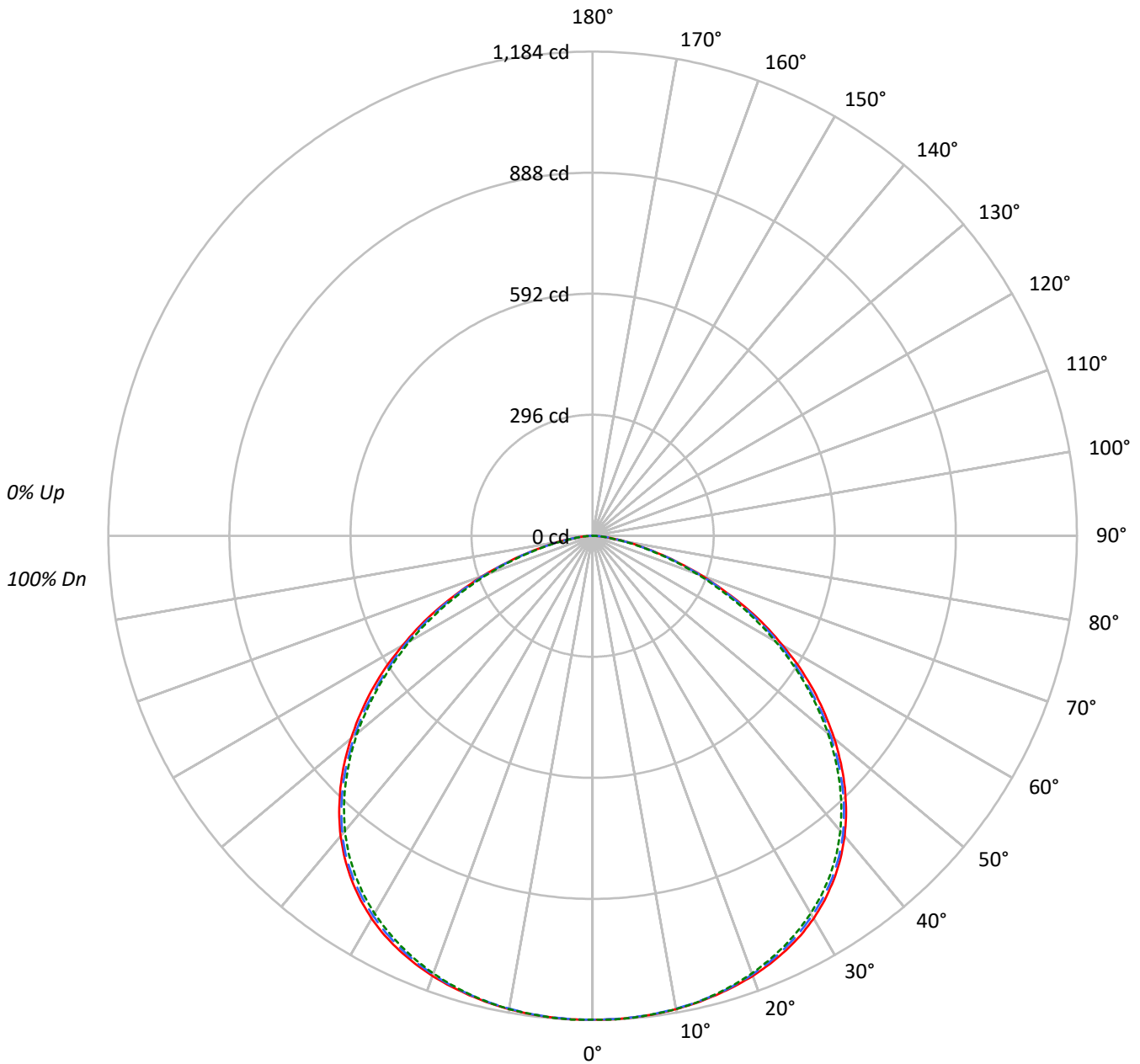
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3443.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3184	3184	3184
5°	3193	3192	3193
10°	3213	3209	3211
15°	3241	3236	3234
20°	3280	3269	3261
25°	3321	3304	3289
30°	3358	3335	3313
35°	3376	3356	3325
40°	3367	3347	3309
45°	3319	3287	3250
50°	3228	3176	3143
55°	3095	3020	2981
60°	2883	2833	2776
65°	2614	2561	2486
70°	2231	2190	2120
75°	1743	1724	1642
80°	1285	1232	1162
85°	775	775	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.3
10°-20°	328.5	9.5
20°-30°	513.5	14.9
30°-40°	638.1	18.5
40°-50°	664.9	19.3
50°-60°	576.9	16.8
60°-70°	396.7	11.5
70°-80°	179.0	5.2
80°-90°	32.8	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°	954.5	27.7
0°-40°	1592.6	46.3
0°-60°	2834.5	82.3
0°-90°	3443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1182	1182	1182	1180	1182	113
15°	1163	1163	1162	1161	1161	329
25°	1119	1118	1113	1108	1108	516
35°	1028	1028	1022	1016	1012	642
45°	872	873	864	857	854	671
55°	660	656	644	636	636	588
65°	410	409	402	393	390	405
75°	168	168	166	161	158	182
85°	25	25	25	25	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.3	1183.3	1183.3	1183.3	<i>1183.3</i>
2.5°	<i>1183.6</i>	<i>1183.6</i>	<i>1182.9</i>	<i>1181.9</i>	<i>1184.3</i>
5°	1181.9	1182.2	1181.5	1180.5	<i>1182.2</i>
7.5°	1179.5	1179.8	1178.8	1177.8	<i>1179.1</i>
10°	1175.7	1175.3	1174.3	1173.6	<i>1175.3</i>
12.5°	1170.2	1169.8	1168.8	1168.1	<i>1169.5</i>
15°	1163.3	1163.3	1161.6	1160.6	<i>1160.9</i>
17.5°	1155.0	1155.0	1152.6	1150.2	<i>1150.9</i>
20°	1145.4	1145.1	1141.6	1139.2	<i>1138.9</i>
22.5°	1133.4	1133.4	1128.6	1125.5	<i>1124.4</i>
25°	1118.6	1118.2	1112.7	1108.3	<i>1107.6</i>
27.5°	1101.7	1101.0	1094.5	1090.0	<i>1088.3</i>
30°	1080.7	1080.0	1073.2	1068.3	<i>1066.3</i>
32.5°	1056.0	1057.0	1049.1	1043.6	<i>1041.5</i>
35°	1027.7	1027.7	1021.5	1015.7	<i>1012.3</i>
37.5°	995.4	995.4	989.5	983.7	<i>979.6</i>
40°	958.6	958.9	952.7	945.5	<i>942.1</i>
42.5°	917.3	918.0	909.7	903.9	<i>900.1</i>
45°	872.2	872.6	863.6	857.1	<i>854.0</i>
47.5°	823.4	822.7	812.7	807.2	<i>804.1</i>
50°	771.1	769.7	758.7	753.5	<i>750.8</i>
52.5°	716.4	713.6	704.0	696.4	<i>694.0</i>
55°	659.6	655.8	643.8	636.2	<i>635.5</i>
57.5°	600.4	595.9	586.0	578.7	<i>576.0</i>
60°	535.7	534.7	526.4	517.8	<i>515.8</i>
62.5°	475.2	472.1	464.8	454.5	<i>453.5</i>
65°	410.5	408.8	402.2	392.6	<i>390.5</i>
67.5°	343.7	345.4	339.9	331.3	<i>328.6</i>
70°	283.5	284.5	278.4	270.4	<i>269.4</i>
72.5°	223.0	224.7	219.5	214.4	<i>213.3</i>
75°	167.6	168.3	165.8	161.4	<i>157.9</i>
77.5°	119.0	121.5	118.7	115.6	<i>112.9</i>
80°	82.9	79.1	79.5	78.1	<i>75.0</i>
82.5°	49.9	48.2	47.8	46.4	<i>45.1</i>
85°	25.1	24.8	25.1	24.8	<i>23.4</i>
87.5°	8.3	8.9	9.3	9.3	<i>8.6</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)