

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: P256946

Luminaire Tested: **HGL-S-BF-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-50L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4296.8 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

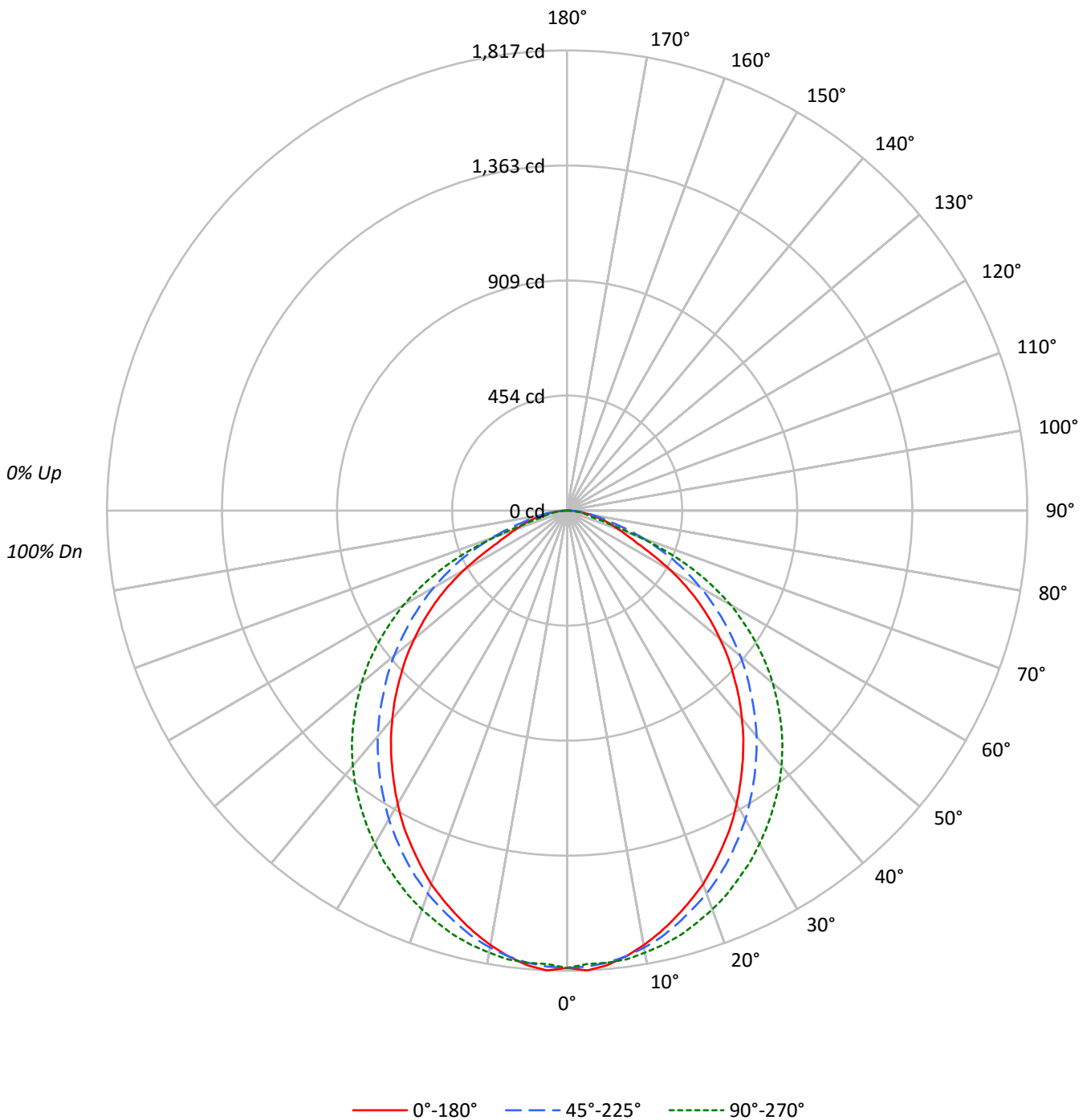
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21202	21202	21202
5°	21240	21066	21046
10°	20766	20775	20972
15°	20177	20337	20837
20°	19592	19874	20613
25°	18866	19327	20350
30°	18116	18737	20095
35°	17289	18052	19792
40°	16419	17357	19466
45°	15437	16513	19013
50°	14338	15685	18409
55°	13003	14680	17543
60°	11051	13540	16280
65°	8462	12101	13954
70°	7321	10067	9032
75°	6733	7470	4221
80°	5994	5980	3610
85°	5017	5064	2697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.9
10°-20°	475.9	11.1
20°-30°	698.0	16.2
30°-40°	809.5	18.8
40°-50°	801.5	18.7
50°-60°	676.3	15.7
60°-70°	438.3	10.2
70°-80°	177.3	4.1
80°-90°	49.2	1.1
90°-100°	1.1	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°	1343.6	31.3
0°-40°	2153.1	50.1
0°-60°	3630.9	84.5
0°-90°	4295.6	100.0
90°-120°	1.1	0.0
90°-150°	1.1	0.0
90°-180°	1.0	0.0
0°-180°	4296.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1802	1784	1792	1791	1792	170
15°	1661	1652	1688	1717	1734	468
25°	1458	1458	1514	1561	1603	671
35°	1208	1216	1288	1356	1423	755
45°	932	952	1027	1113	1195	719
55°	637	671	750	839	910	566
65°	306	354	466	523	549	318
75°	150	156	185	151	108	159
85°	38	45	52	42	30	42
90°	0	7	12	8	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.6	1805.6	1805.6	1805.6	1805.6
2.5°	1817.3	1797.3	1802.3	1799.0	1792.3
5°	1802.3	1784.0	1792.3	1790.7	1792.3
7.5°	1775.7	1760.7	1775.7	1780.7	1787.3
10°	1742.4	1730.8	1752.4	1764.0	1772.4
12.5°	1704.1	1694.1	1724.1	1742.4	1755.7
15°	1660.9	1652.5	1687.5	1717.4	1734.1
17.5°	1615.9	1609.3	1649.2	1687.5	1705.8
20°	1569.3	1562.7	1609.3	1647.5	1675.8
22.5°	1514.4	1511.1	1564.3	1604.3	1642.5
25°	1457.8	1457.8	1514.4	1561.0	1602.6
27.5°	1401.2	1401.2	1461.2	1512.7	1564.3
30°	1338.0	1343.0	1407.9	1464.5	1519.4
32.5°	1273.1	1281.4	1348.0	1411.2	1472.8
35°	1208.2	1216.5	1288.1	1356.3	1422.9
37.5°	1143.3	1154.9	1226.5	1298.1	1373.0
40°	1073.4	1088.4	1163.3	1238.2	1316.4
42.5°	1005.2	1021.8	1096.7	1176.6	1258.1
45°	931.9	951.9	1026.8	1113.3	1194.9
47.5°	863.7	883.7	961.9	1046.8	1128.3
50°	787.2	812.1	892.0	980.2	1060.1
52.5°	713.9	742.2	820.4	910.3	988.5
55°	637.4	670.7	750.5	838.7	910.3
57.5°	555.8	595.8	679.0	763.9	828.8
60°	472.6	520.9	609.1	687.3	745.6
62.5°	382.8	439.3	535.9	609.1	650.7
65°	306.2	354.5	466.0	522.6	549.2
67.5°	254.6	282.9	389.4	431.0	431.0
70°	214.7	229.7	319.5	329.5	294.6
72.5°	181.4	189.7	249.6	224.7	168.1
75°	149.8	156.4	184.7	151.4	108.2
77.5°	119.8	124.8	139.8	114.8	84.9
80°	89.9	96.5	104.8	88.2	66.6
82.5°	63.2	68.2	78.2	64.9	48.3
85°	38.3	44.9	51.6	41.6	30.0
87.5°	16.6	21.6	28.3	21.6	13.3
90°	0.0	6.7	11.6	8.3	0.0
92.5°	0.0	0.0	1.7	1.7	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
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)