

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: P256934

Luminaire Tested: **HGL-S-BF-50L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256934
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-50L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

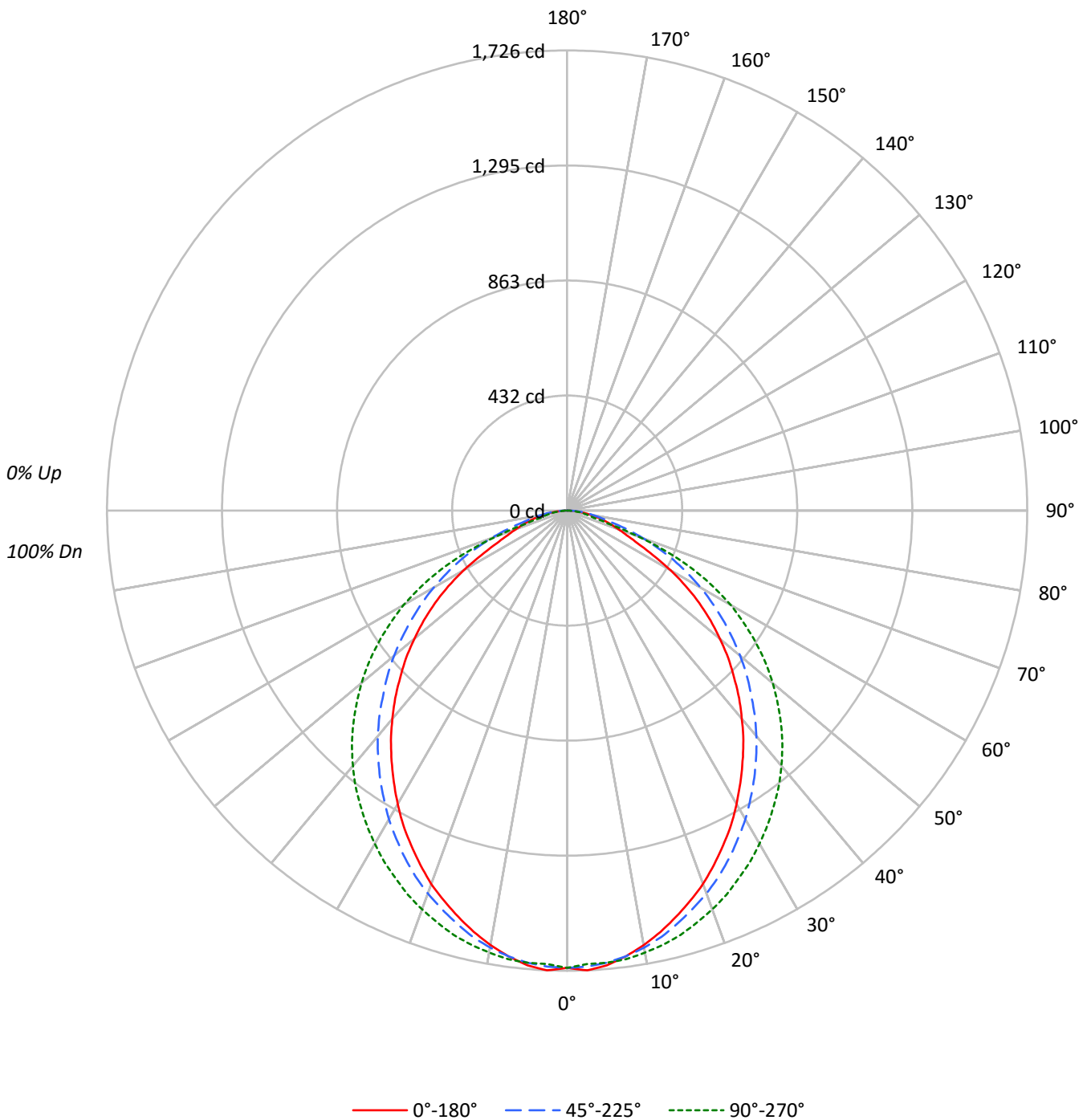
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	20137	20137	20137
5°	20173	20008	19989
10°	19724	19732	19918
15°	19163	19315	19791
20°	18608	18875	19579
25°	17918	18356	19328
30°	17206	17796	19086
35°	16421	17146	18798
40°	15595	16484	18487
45°	14662	15683	18058
50°	13617	14897	17483
55°	12350	13943	16662
60°	10497	12859	15461
65°	8037	11494	13252
70°	6953	9563	8578
75°	6396	7094	4007
80°	5694	5684	3426
85°	4768	4809	2562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	3.9
10°-20°	452.0	11.1
20°-30°	663.0	16.2
30°-40°	768.8	18.8
40°-50°	761.2	18.7
50°-60°	642.3	15.7
60°-70°	416.3	10.2
70°-80°	168.4	4.1
80°-90°	46.7	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°	1276.1	31.3
0°-40°	2045.0	50.1
0°-60°	3448.5	84.5
0°-90°	4079.9	100.0
90°-120°	1.1	0.0
90°-150°	1.1	0.0
90°-180°	1.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1712	1694	1702	1701	1702	161
15°	1577	1570	1603	1631	1647	444
25°	1385	1385	1438	1483	1522	637
35°	1148	1155	1223	1288	1351	717
45°	885	904	975	1057	1135	683
55°	605	637	713	797	865	538
65°	291	337	443	496	522	302
75°	142	149	175	144	103	151
85°	36	43	49	40	28	40
90°	0	6	11	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°	1714.9	1714.9	1714.9	1714.9	1714.9
2.5°	1726.0	1707.0	1711.8	1708.6	1702.3
5°	1711.8	1694.4	1702.3	1700.7	1702.3
7.5°	1686.5	1672.3	1686.5	1691.2	1697.6
10°	1654.9	1643.8	1664.4	1675.4	1683.3
12.5°	1618.5	1609.0	1637.5	1654.9	1667.5
15°	1577.4	1569.5	1602.7	1631.2	1647.0
17.5°	1534.8	1528.4	1566.4	1602.7	1620.1
20°	1490.5	1484.2	1528.4	1564.8	1591.7
22.5°	1438.3	1435.2	1485.8	1523.7	1560.0
25°	1384.6	1384.6	1438.3	1482.6	1522.1
27.5°	1330.9	1330.9	1387.8	1436.8	1485.8
30°	1270.8	1275.5	1337.2	1390.9	1443.1
32.5°	1209.2	1217.1	1280.3	1340.3	1398.8
35°	1147.5	1155.4	1223.4	1288.2	1351.4
37.5°	1085.9	1096.9	1164.9	1232.9	1304.0
40°	1019.5	1033.7	1104.8	1176.0	1250.2
42.5°	954.7	970.5	1041.6	1117.5	1194.9
45°	885.1	904.1	975.2	1057.4	1134.9
47.5°	820.3	839.3	913.6	994.2	1071.6
50°	747.6	771.3	847.2	931.0	1006.8
52.5°	678.1	704.9	779.2	864.6	938.9
55°	605.4	637.0	712.8	796.6	864.6
57.5°	527.9	565.9	644.9	725.5	787.1
60°	448.9	494.7	578.5	652.8	708.1
62.5°	363.5	417.3	509.0	578.5	618.0
65°	290.8	336.7	442.6	496.3	521.6
67.5°	241.8	268.7	369.9	409.4	409.4
70°	203.9	218.1	303.5	313.0	279.8
72.5°	172.3	180.2	237.1	213.4	159.6
75°	142.3	148.6	175.4	143.8	102.7
77.5°	113.8	118.5	132.8	109.1	80.6
80°	85.4	91.7	99.6	83.8	63.2
82.5°	60.1	64.8	74.3	61.6	45.8
85°	36.4	42.7	49.0	39.5	28.5
87.5°	15.8	20.5	26.9	20.5	12.6
90°	0.0	6.3	11.1	7.9	0.0
92.5°	0.0	0.0	1.6	1.6	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)