

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: P256990

Luminaire Tested: **HGL-S-BF-60L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256990
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-60L830-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14793.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

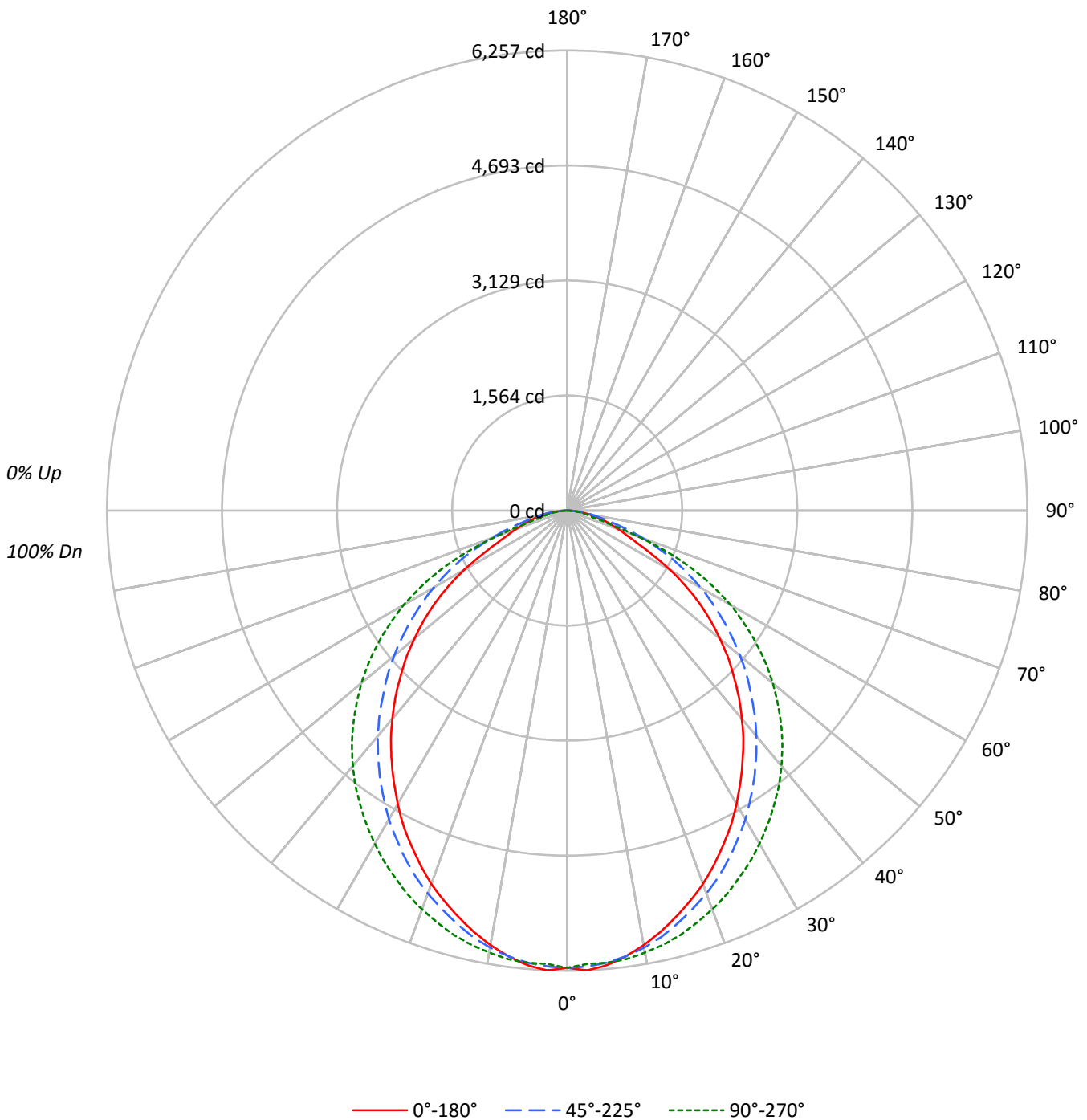
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24333	24333	24333
5°	24379	24179	24153
10°	23839	23847	24067
15°	23166	23346	23913
20°	22499	22817	23657
25°	21668	22192	23354
30°	20810	21517	23062
35°	19865	20734	22714
40°	18870	19938	22339
45°	17746	18972	21820
50°	16486	18025	21126
55°	14957	16876	20133
60°	12720	15568	18682
65°	9746	13920	16013
70°	8439	11589	10363
75°	7775	8608	4843
80°	6941	6906	4141
85°	5863	5867	3089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.3	3.9
10°-20°	1638.4	11.1
20°-30°	2403.2	16.2
30°-40°	2787.0	18.8
40°-50°	2759.3	18.7
50°-60°	2328.4	15.7
60°-70°	1508.9	10.2
70°-80°	610.5	4.1
80°-90°	169.4	1.1
90°-100°	3.9	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°	4625.9	31.3
0°-40°	7412.9	50.1
0°-60°	12500.6	84.5
0°-90°	14789.4	100.0
90°-120°	3.9	0.0
90°-150°	3.9	0.0
90°-180°	4.0	0.0
0°-180°	14793.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6217	6217	6217	6217	6217	
5°	6205	6142	6171	6165	6171	585
15°	5718	5690	5810	5913	5970	1611
25°	5019	5019	5214	5374	5518	2311
35°	4160	4188	4435	4670	4899	2601
45°	3209	3277	3535	3833	4114	2477
55°	2194	2309	2584	2888	3134	1950
65°	1054	1220	1604	1799	1891	1094
75°	516	539	636	521	372	548
85°	132	155	178	143	103	145
90°	0	23	40	29	0	8
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°	6216.6	6216.6	6216.6	6216.6	6216.6
2.5°	6256.7	6187.9	6205.1	6193.7	6170.7
5°	6205.1	6142.1	6170.7	6165.0	6170.7
7.5°	6113.4	6061.9	6113.4	6130.6	6153.5
10°	5998.8	5958.7	6033.2	6073.3	6102.0
12.5°	5867.1	5832.7	5935.8	5998.8	6044.7
15°	5718.1	5689.5	5809.8	5912.9	5970.2
17.5°	5563.4	5540.5	5678.0	5809.8	5872.8
20°	5403.0	5380.1	5540.5	5672.3	5769.7
22.5°	5213.9	5202.4	5385.8	5523.3	5655.1
25°	5019.1	5019.1	5213.9	5374.3	5517.6
27.5°	4824.3	4824.3	5030.6	5208.2	5385.8
30°	4606.6	4623.8	4847.2	5042.0	5231.1
32.5°	4383.1	4411.8	4640.9	4858.7	5070.7
35°	4159.7	4188.3	4434.7	4669.6	4898.8
37.5°	3936.2	3976.3	4222.7	4469.1	4726.9
40°	3695.6	3747.1	4005.0	4262.8	4532.1
42.5°	3460.7	3517.9	3775.8	4050.8	4331.5
45°	3208.6	3277.3	3535.1	3833.1	4113.8
47.5°	2973.6	3042.4	3311.7	3603.9	3884.6
50°	2710.1	2796.0	3071.0	3374.7	3649.7
52.5°	2458.0	2555.4	2824.7	3134.1	3403.4
55°	2194.4	2309.0	2584.0	2887.7	3134.1
57.5°	1913.7	2051.2	2337.7	2629.9	2853.3
60°	1627.2	1793.4	2097.0	2366.3	2566.8
62.5°	1317.8	1512.6	1844.9	2097.0	2240.3
65°	1054.2	1220.4	1604.3	1799.1	1890.8
67.5°	876.6	974.0	1340.7	1484.0	1484.0
70°	739.1	790.7	1100.1	1134.5	1014.1
72.5°	624.5	653.2	859.4	773.5	578.7
75°	515.7	538.6	636.0	521.4	372.4
77.5°	412.5	429.7	481.3	395.3	292.2
80°	309.4	332.3	361.0	303.7	229.2
82.5°	217.7	234.9	269.3	223.5	166.2
85°	131.8	154.7	177.6	143.2	103.1
87.5°	57.3	74.5	97.4	74.5	45.8
90°	0.0	22.9	40.1	28.6	0.0
92.5°	0.0	0.0	5.7	5.7	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)