

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: HALO COMMERCIAL

Report Number: P21689

Luminaire Tested: **PD6V120-60V1GC_16PAR38LED**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21689
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6V120-60V1GC_16PAR38LED
Description: HALO 6 INCH RECESSED LED LENSED DOWNLIGHT
VERTICAL LAMP, SPECULAR CLEAR TRIM AND PRISMATIC GLASS LENS
Light Source: (1) PAR 38 LED 16 WATTS
16E26PAR38
Ballast/Driver: CHROMA IN0061
CHROMA IN0061

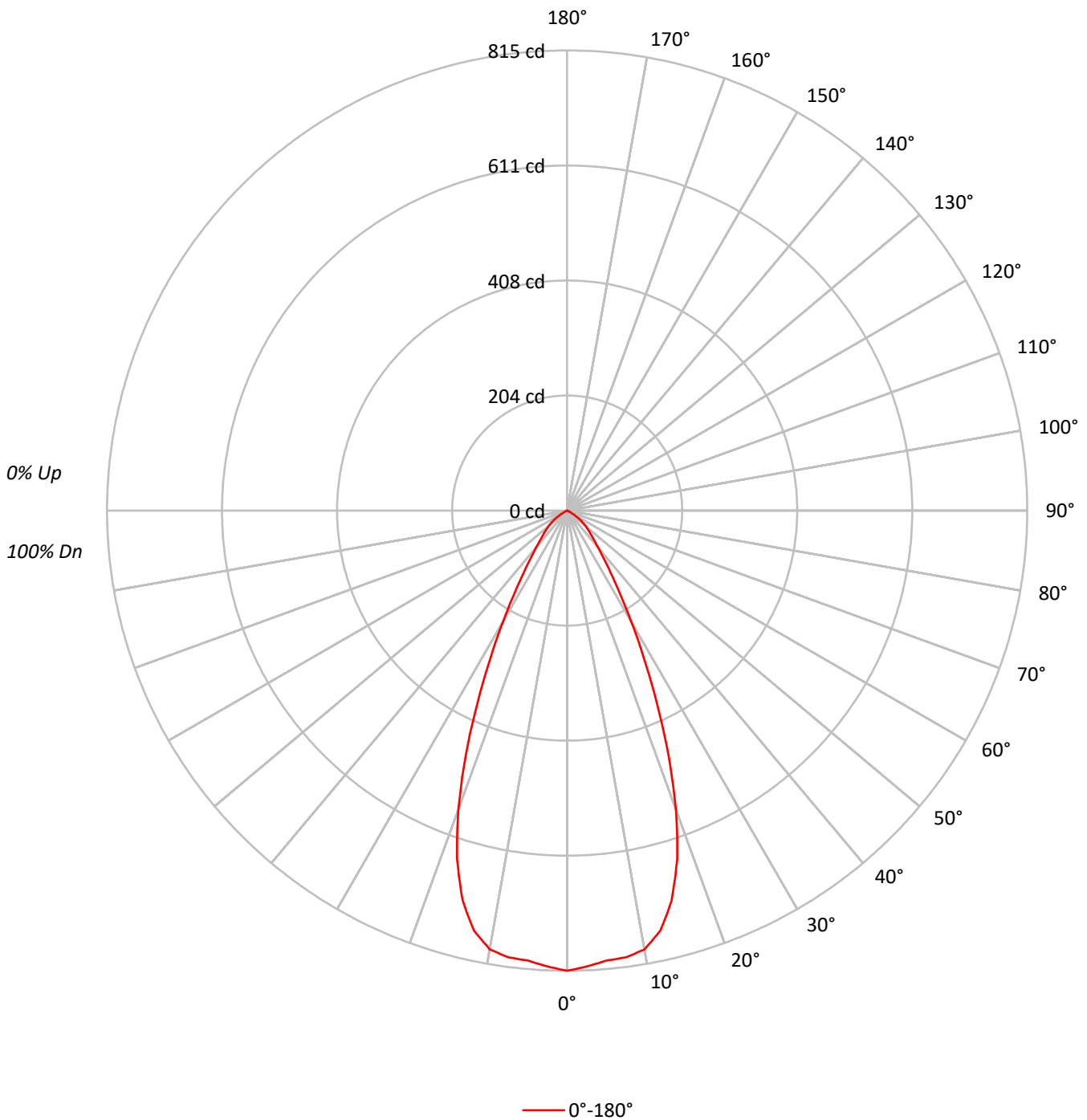
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 606.3 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.74
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')
CIE Type: Direct

Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): 0.143
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P21689
CATALOG NUMBER: PD6V120-60V1GC_16PAR38LED

Luminous Intensity Polar Plot





TEST NUMBER: P21689

CATALOG NUMBER: PD6V120-60V1GC_16PAR38LED

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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92		95	93	91		92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85		90	86	84		87	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79		85	81	78		83	80	77	75
5	93	84	79	74	91	83	78	74	82	77	73		80	76	73		78	75	72	71
6	88	79	73	69	87	79	73	69	77	72	68		76	71	68		74	70	68	66
7	84	75	69	65	83	74	69	65	73	68	64		72	67	64		71	67	63	62
8	80	71	65	61	79	70	65	61	69	64	60		68	63	60		67	63	60	59
9	76	67	61	57	75	67	61	57	66	61	57		65	60	57		64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54		62	57	54		61	57	54	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41176
5°	39723
10°	38804
15°	35099
20°	27796
25°	18765
30°	11554
35°	7057
40°	4652
45°	3387
50°	2617
55°	1763
60°	710
65°	314
70°	88
75°	0
80°	0
85°	0



TEST NUMBER: P21689

CATALOG NUMBER: PD6V120-60V1GC_16PAR38LED

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	12.6
10°-20°	195.2	32.2
20°-30°	172.6	28.5
30°-40°	87.4	14.4
40°-50°	46.8	7.7
50°-60°	23.4	3.9
60°-70°	4.3	0.7
70°-80°	0.4	0.1
80°-90°	0.0	0.0
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°	444.0	73.2
0°-40°	531.4	87.7
0°-60°	601.6	99.2
0°-90°	606.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	815	
5°	800	76
15°	715	195
25°	375	173
35°	134	87
45°	59	47
55°	27	23
65°	4	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P21689

CATALOG NUMBER: PD6V120-60V1GC_16PAR38LED

CANDELA DISTRIBUTION (FULL):

	0°
0°	815
2.5°	808
5°	800
7.5°	798
10°	789
12.5°	762
15°	715
17.5°	648
20°	563
22.5°	469
25°	375
27.5°	293
30°	226
32.5°	173
35°	134
37.5°	105
40°	85
42.5°	70
45°	59
47.5°	51
50°	43
52.5°	35
55°	27
57.5°	17
60°	10
62.5°	6
65°	4
67.5°	2
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)