

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: NEO-RAY

Report Number: P199567

Luminaire Tested: **S125-DIP-ULO-LO-30-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199567
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIP-ULO-LO-30-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LLO-3000K, SATIN WHITE DIFFUSER
DOWNLIGHT LLO-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2935.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

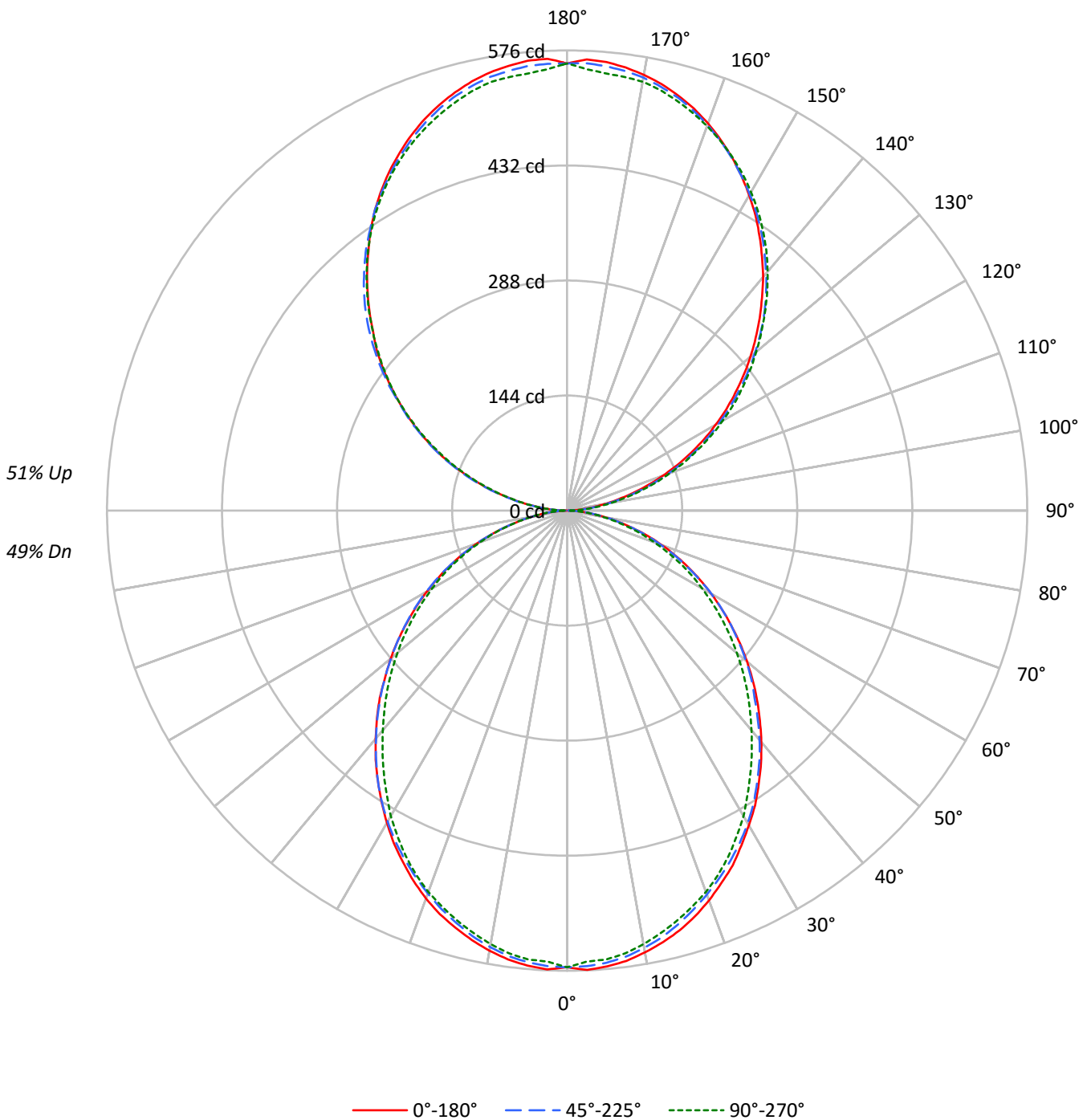
Input Watts (W): 26.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	93	89	86	90	86	83	80	73	70	68	60	58	57	49	48	46	41				41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29				29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25				25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22				22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17				17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15				15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14				14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3616	3616	3616
5°	3608	3320	3601
10°	3550	3055	3536
15°	3477	2804	3455
20°	3382	2576	3366
25°	3281	2348	3253
30°	3155	2122	3131
35°	3034	1896	2998
40°	2900	1689	2859
45°	2757	1499	2718
50°	2607	1317	2558
55°	2446	1140	2388
60°	2273	965	2212
65°	2082	797	2009
70°	1860	618	1772
75°	1560	440	1453
80°	1181	273	1080
85°	705	119	620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.8
10°-20°	150.9	5.1
20°-30°	221.7	7.6
30°-40°	256.1	8.7
40°-50°	253.8	8.6
50°-60°	220.1	7.5
60°-70°	160.8	5.5
70°-80°	87.9	3.0
80°-90°	22.8	0.8
90°-100°	27.8	0.9
100°-110°	100.2	3.4
110°-120°	178.3	6.1
120°-130°	237.8	8.1
130°-140°	269.1	9.2
140°-150°	265.8	9.1
150°-160°	225.1	7.7
160°-170°	150.7	5.1
170°-180°	52.9	1.8
0°-30°	426.3	14.5
0°-40°	682.4	23.2
0°-60°	1156.3	39.4
0°-90°	1427.8	48.6
90°-120°	306.4	10.4
90°-150°	1079.1	36.8
90°-180°	1508.0	51.4
0°-180°	2935.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	573	568	564	567	572	54
15°	544	536	531	535	540	153
25°	490	484	478	481	486	225
35°	418	415	400	413	413	261
45°	336	332	318	330	332	260
55°	251	250	236	246	245	224
65°	166	165	156	161	161	165
75°	86	85	78	80	80	91
85°	20	21	18	18	18	22
90°	1	1	1	1	1	2
95°	19	23	25	27	24	22
105°	85	92	95	99	97	91
115°	171	178	181	185	184	169
125°	257	263	268	272	269	230
135°	341	349	350	357	350	263
145°	420	424	428	430	429	263
155°	488	487	489	492	495	225
165°	538	535	531	538	542	152
175°	564	558	549	559	565	53
180°	560	560	560	560	560	



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CATALOG NUMBER: S125-DIP-ULO-LO-30-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6
2.5°	575.5	569.5	570.9	569.9	565.0	569.2	570.6	568.5	574.8
5°	572.7	566.7	568.1	566.7	563.9	566.0	567.4	565.3	571.6
7.5°	568.5	562.2	563.2	561.8	559.0	560.8	562.5	560.4	566.7
10°	561.5	555.5	555.9	554.2	551.0	553.1	554.9	553.1	559.4
12.5°	553.5	547.2	547.2	544.4	541.6	543.3	545.8	544.4	550.7
15°	544.0	537.4	536.3	534.6	531.4	533.5	534.6	534.2	540.5
17.5°	532.5	525.5	524.1	523.7	519.9	522.7	523.0	522.0	529.7
20°	519.2	512.5	511.5	511.1	508.0	510.1	510.1	508.7	516.7
22.5°	504.5	498.2	497.8	497.1	493.6	496.1	496.1	494.0	502.0
25°	490.1	482.4	483.5	481.7	477.5	481.0	481.4	477.9	485.9
27.5°	472.3	466.3	468.4	465.3	459.7	464.2	466.3	461.1	469.5
30°	454.8	448.5	452.0	446.4	441.5	445.7	449.5	442.9	451.3
32.5°	437.7	430.3	434.5	427.5	420.5	425.8	432.1	425.8	432.4
35°	418.1	412.1	414.6	407.2	400.2	405.5	413.2	407.2	413.2
37.5°	398.5	393.6	395.3	386.6	379.6	384.8	392.9	388.3	393.6
40°	378.2	374.7	374.7	365.9	358.9	363.8	372.2	369.8	372.9
42.5°	357.2	355.8	353.0	345.3	338.6	343.5	351.6	350.9	352.3
45°	336.5	336.5	332.0	324.0	318.4	322.9	330.3	332.0	331.7
47.5°	315.2	317.0	313.1	304.4	298.1	302.6	309.3	312.4	308.9
50°	293.9	297.0	292.1	284.4	277.4	282.3	287.9	292.1	288.3
52.5°	272.5	276.4	271.1	263.8	256.8	261.3	266.9	271.8	266.9
55°	250.8	255.4	250.5	242.8	236.1	240.3	245.9	250.8	244.9
57.5°	229.5	233.7	229.5	221.8	215.5	219.4	225.3	229.1	223.9
60°	208.2	212.7	208.5	201.2	195.2	198.4	204.0	207.8	202.6
62.5°	187.2	191.0	186.5	180.5	176.0	177.4	182.6	187.2	181.6
65°	166.5	170.0	165.1	159.9	156.0	156.7	161.3	163.7	160.6
67.5°	146.2	150.1	144.8	139.9	135.4	136.8	140.6	144.1	140.3
70°	125.9	129.8	124.2	120.0	116.1	116.8	120.0	123.8	120.0
72.5°	106.0	109.2	105.3	100.4	97.6	98.3	100.1	103.6	99.7
75°	85.7	89.2	85.0	81.2	78.4	79.1	80.1	82.9	79.8
77.5°	66.8	69.3	66.5	63.3	61.6	61.9	62.3	64.4	61.6
80°	49.3	51.4	49.7	47.2	45.8	45.8	45.8	47.6	45.1
82.5°	33.6	35.7	34.3	32.5	31.5	30.4	31.1	32.5	30.4
85°	19.9	21.7	21.0	19.2	18.5	17.8	18.5	19.2	17.5
87.5°	9.1	10.5	9.4	7.7	7.0	6.3	6.3	7.3	5.9
90°	0.7	1.7	1.4	1.0	0.7	0.7	1.0	1.4	0.7
92.5°	6.6	9.1	9.1	8.0	9.8	11.2	13.6	13.6	11.9
95°	19.2	21.7	22.7	23.4	25.2	25.9	26.6	26.6	24.5
97.5°	32.9	36.4	37.1	38.1	40.2	40.6	41.6	42.0	39.5
100°	48.3	52.5	53.2	54.6	57.0	57.4	58.8	59.5	57.0
102.5°	65.8	70.7	71.7	72.8	74.5	75.9	77.7	78.7	75.9
105°	85.0	91.0	91.7	93.1	95.2	96.6	98.7	99.4	96.9
107.5°	106.4	110.9	113.0	113.7	115.8	117.2	120.0	120.3	118.2
110°	127.3	131.5	134.3	135.0	137.1	138.5	141.3	141.3	139.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	149.0	153.6	156.0	156.7	159.2	160.2	163.0	163.4	161.6
115°	171.1	175.3	178.1	178.8	180.9	182.3	184.7	185.4	183.7
117.5°	193.1	197.3	199.4	200.8	203.3	204.3	205.7	206.8	205.0
120°	214.5	218.7	220.4	222.5	224.9	226.0	228.1	227.4	226.3
122.5°	236.1	240.0	241.7	244.2	247.0	247.3	248.7	248.4	247.7
125°	257.1	260.3	263.4	264.8	268.0	268.0	271.8	268.7	268.7
127.5°	278.5	280.9	285.1	285.8	288.6	289.0	293.5	289.0	290.0
130°	299.5	301.2	306.8	306.8	308.9	309.6	315.6	309.3	310.7
132.5°	320.1	321.5	328.2	327.5	329.6	330.3	336.9	329.6	329.2
135°	340.7	341.4	349.1	348.1	350.2	351.2	357.2	349.1	349.5
137.5°	361.0	360.7	368.7	368.4	370.5	371.2	376.8	367.3	369.8
140°	381.7	379.2	387.6	388.3	390.4	391.1	395.0	387.6	389.7
142.5°	400.6	399.5	405.8	406.9	409.7	409.7	413.2	405.8	408.6
145°	419.8	417.4	424.4	424.4	427.5	427.2	430.0	425.1	428.9
147.5°	438.7	435.6	441.5	441.9	444.6	444.6	447.1	442.2	447.1
150°	455.8	453.0	457.2	457.6	460.4	460.0	462.5	460.0	464.2
152.5°	472.3	469.5	472.3	471.9	475.4	474.4	477.5	475.4	480.3
155°	488.0	484.9	487.3	485.9	488.7	488.4	491.9	491.2	495.0
157.5°	502.4	498.9	501.0	499.2	501.0	501.3	505.2	504.8	509.0
160°	515.7	512.2	513.6	510.4	512.2	512.5	517.4	517.4	521.6
162.5°	527.6	523.7	525.1	520.2	522.0	522.0	528.3	528.3	532.5
165°	537.7	534.2	535.3	529.3	531.1	531.4	537.7	538.1	541.9
167.5°	546.8	543.0	543.3	537.7	539.1	539.5	545.1	545.8	550.3
170°	553.8	550.3	550.3	544.0	545.1	545.4	551.4	552.4	556.9
172.5°	559.4	555.5	554.9	548.2	547.5	549.3	555.2	557.3	561.5
175°	563.6	559.4	558.3	551.7	549.3	552.8	558.7	560.4	565.3
177.5°	565.3	561.1	560.4	553.5	553.1	554.2	559.7	561.8	566.0
180°	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7

(END OF REPORT)