

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: P199564

Luminaire Tested: **S125-DIP-ULO-2-35-X-X0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199564
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)
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-2-35-X-X0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LLO-3500K, NO LENS
DOWNLIGHT LL2-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5898.3 lumens
Efficiency: N/A
Efficacy: 107.0 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: Semi-Direct

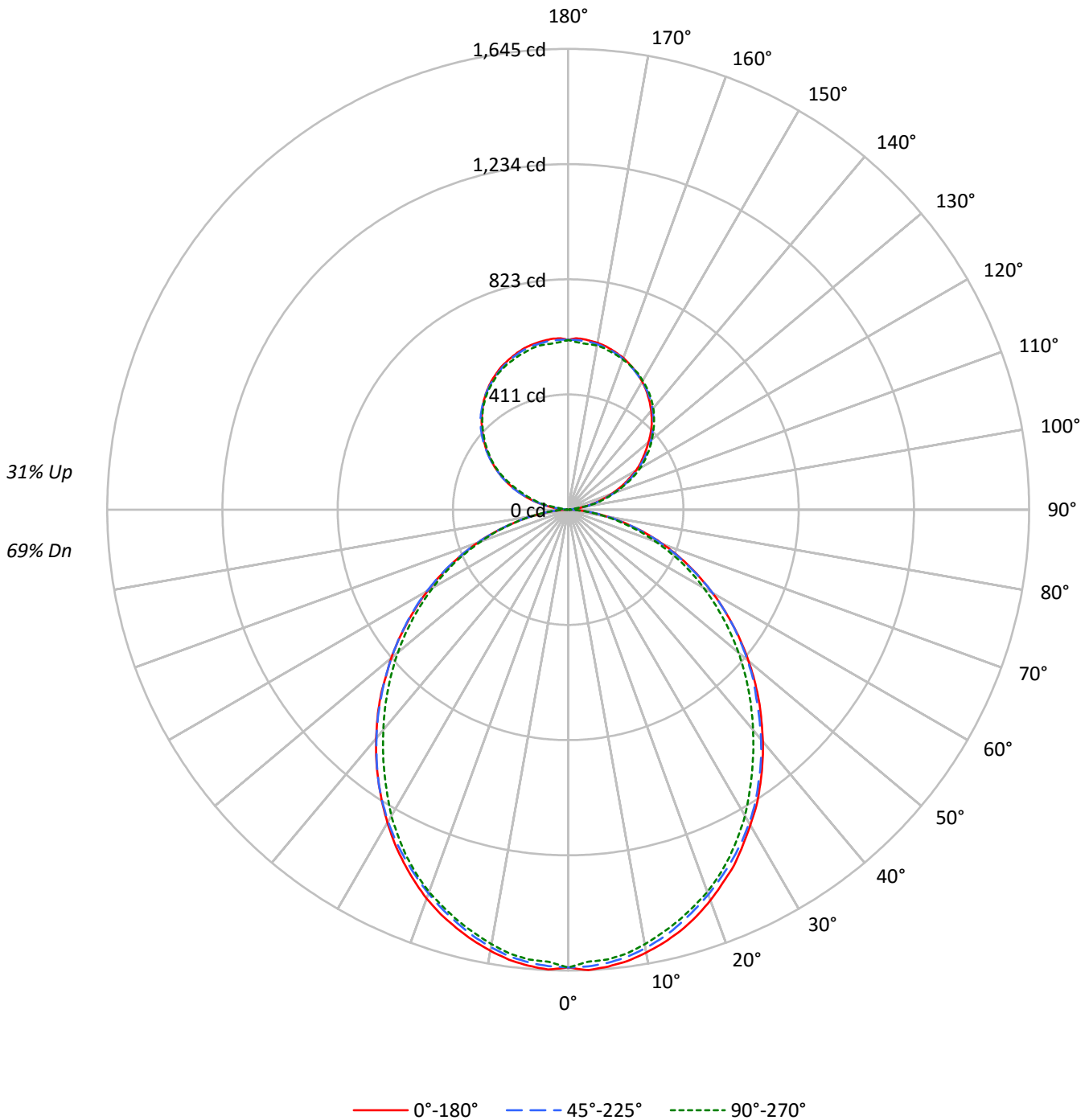
Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74	69								
1	102	98	94	90	96	93	89	86	83	80	78	74	72	70	65	64	63	58								
2	93	86	79	74	88	81	75	71	73	68	64	65	61	58	58	55	53	49								
3	85	75	68	62	80	71	65	59	64	59	54	57	53	50	51	48	45	42								
4	78	67	59	52	73	63	56	50	57	51	46	51	46	43	46	42	39	36								
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31								
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	33	30	27								
7	61	49	40	35	58	46	39	33	42	36	31	38	33	29	34	30	27	24								
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	32	27	24	22								
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20								
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10338	10338	10338
5°	10313	9490	10294
10°	10146	8732	10108
15°	9940	8016	9876
20°	9668	7364	9622
25°	9378	6712	9298
30°	9019	6067	8949
35°	8672	5420	8570
40°	8289	4828	8174
45°	7883	4285	7768
50°	7452	3766	7310
55°	6991	3258	6826
60°	6495	2759	6321
65°	5953	2279	5741
70°	5317	1768	5066
75°	4460	1256	4151
80°	3378	782	3090
85°	2019	341	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	2.6
10°-20°	431.3	7.3
20°-30°	633.7	10.7
30°-40°	731.9	12.4
40°-50°	725.5	12.3
50°-60°	629.2	10.7
60°-70°	459.6	7.8
70°-80°	251.1	4.3
80°-90°	65.3	1.1
90°-100°	19.5	0.3
100°-110°	128.7	2.2
110°-120°	236.1	4.0
120°-130°	306.1	5.2
130°-140°	332.6	5.6
140°-150°	314.4	5.3
150°-160°	255.7	4.3
160°-170°	166.3	2.8
170°-180°	57.5	1.0
0°-30°	1218.7	20.7
0°-40°	1950.6	33.1
0°-60°	3305.3	56.0
0°-90°	4081.3	69.2
90°-120°	384.4	6.5
90°-150°	1337.4	22.7
90°-180°	1817.0	30.8
0°-180°	5898.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1634	1634	1634	1634	1634	
5°	1637	1624	1612	1622	1634	155
15°	1555	1533	1519	1528	1545	438
25°	1401	1382	1365	1376	1389	644
35°	1195	1185	1144	1181	1181	747
45°	962	949	910	944	948	742
55°	717	716	675	703	700	641
65°	476	472	446	461	459	472
75°	245	243	224	229	228	261
85°	57	60	53	53	50	64
90°	2	4	2	3	2	4
95°	13	4	4	6	30	19
105°	106	112	120	132	135	112
115°	222	232	238	250	249	219
125°	327	337	345	352	350	293
135°	421	430	434	443	436	324
145°	496	501	505	509	509	311
155°	554	552	555	559	564	255
165°	593	589	584	593	598	167
175°	611	605	596	606	613	58
180°	606	606	606	606	606	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1645.0	1628.0	1632.0	1629.0	1615.0	1627.0	1631.0	1625.0	1643.0
5°	1637.0	1620.0	1624.0	1620.0	1612.0	1618.0	1622.0	1616.0	1634.0
7.5°	1625.0	1607.0	1610.0	1606.0	1598.0	1603.0	1608.0	1602.0	1620.0
10°	1605.0	1588.0	1589.0	1584.0	1575.0	1581.0	1586.0	1581.0	1599.0
12.5°	1582.0	1564.0	1564.0	1556.0	1548.0	1553.0	1560.0	1556.0	1574.0
15°	1555.0	1536.0	1533.0	1528.0	1519.0	1525.0	1528.0	1527.0	1545.0
17.5°	1522.0	1502.0	1498.0	1497.0	1486.0	1494.0	1495.0	1492.0	1514.0
20°	1484.0	1465.0	1462.0	1461.0	1452.0	1458.0	1458.0	1454.0	1477.0
22.5°	1442.0	1424.0	1423.0	1421.0	1411.0	1418.0	1418.0	1412.0	1435.0
25°	1401.0	1379.0	1382.0	1377.0	1365.0	1375.0	1376.0	1366.0	1389.0
27.5°	1350.0	1333.0	1339.0	1330.0	1314.0	1327.0	1333.0	1318.0	1342.0
30°	1300.0	1282.0	1292.0	1276.0	1262.0	1274.0	1285.0	1266.0	1290.0
32.5°	1251.0	1230.0	1242.0	1222.0	1202.0	1217.0	1235.0	1217.0	1236.0
35°	1195.0	1178.0	1185.0	1164.0	1144.0	1159.0	1181.0	1164.0	1181.0
37.5°	1139.0	1125.0	1130.0	1105.0	1085.0	1100.0	1123.0	1110.0	1125.0
40°	1081.0	1071.0	1071.0	1046.0	1026.0	1040.0	1064.0	1057.0	1066.0
42.5°	1021.0	1017.0	1009.0	987.0	968.0	982.0	1005.0	1003.0	1007.0
45°	962.0	962.0	949.0	926.0	910.0	923.0	944.0	949.0	948.0
47.5°	901.0	906.0	895.0	870.0	852.0	865.0	884.0	893.0	883.0
50°	840.0	849.0	835.0	813.0	793.0	807.0	823.0	835.0	824.0
52.5°	779.0	790.0	775.0	754.0	734.0	747.0	763.0	777.0	763.0
55°	717.0	730.0	716.0	694.0	675.0	687.0	703.0	717.0	700.0
57.5°	656.0	668.0	656.0	634.0	616.0	627.0	644.0	655.0	640.0
60°	595.0	608.0	596.0	575.0	558.0	567.0	583.0	594.0	579.0
62.5°	535.0	546.0	533.0	516.0	503.0	507.0	522.0	535.0	519.0
65°	476.0	486.0	472.0	457.0	446.0	448.0	461.0	468.0	459.0
67.5°	418.0	429.0	414.0	400.0	387.0	391.0	402.0	412.0	401.0
70°	360.0	371.0	355.0	343.0	332.0	334.0	343.0	354.0	343.0
72.5°	303.0	312.0	301.0	287.0	279.0	281.0	286.0	296.0	285.0
75°	245.0	255.0	243.0	232.0	224.0	226.0	229.0	237.0	228.0
77.5°	191.0	198.0	190.0	181.0	176.0	177.0	178.0	184.0	176.0
80°	141.0	147.0	142.0	135.0	131.0	131.0	131.0	136.0	129.0
82.5°	96.0	102.0	98.0	93.0	90.0	87.0	89.0	93.0	87.0
85°	57.0	62.0	60.0	55.0	53.0	51.0	53.0	55.0	50.0
87.5°	26.0	30.0	27.0	22.0	20.0	18.0	18.0	21.0	17.0
90°	2.0	5.0	4.0	3.0	2.0	2.0	3.0	4.0	2.0
92.5°	1.8	2.5	2.5	2.9	2.9	3.2	3.6	4.3	12.1
95°	12.8	14.3	3.9	4.3	4.3	4.6	6.1	34.6	29.6
97.5°	29.6	37.8	12.5	7.5	6.8	10.0	38.5	55.0	52.1
100°	52.8	58.9	59.6	38.9	26.4	54.6	76.0	82.1	78.2
102.5°	78.2	84.9	83.2	90.3	92.8	100.6	102.4	110.3	107.1
105°	105.6	113.1	112.1	119.2	119.9	128.8	132.4	137.0	135.3
107.5°	134.6	139.9	142.8	147.4	147.0	156.7	163.8	166.0	164.2
110°	164.2	167.7	173.1	176.3	176.3	185.9	194.2	194.5	192.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	192.4	198.4	203.4	207.4	206.6	217.0	222.7	223.8	221.6
115°	222.3	224.8	231.6	237.3	238.4	246.3	250.2	251.3	249.1
117.5°	249.8	253.8	258.0	264.8	268.4	273.4	276.2	278.0	275.9
120°	279.1	281.6	284.1	290.5	296.9	299.8	301.9	303.4	301.6
122.5°	304.4	306.2	311.6	315.9	322.3	324.4	327.6	327.3	325.8
125°	326.9	329.4	337.3	339.8	345.1	348.0	351.9	349.8	349.8
127.5°	350.5	352.6	362.6	363.0	368.0	371.2	376.2	372.6	373.0
130°	373.7	377.2	386.2	386.2	390.1	393.7	399.4	394.0	395.4
132.5°	398.3	399.4	407.6	407.9	411.5	415.1	421.9	414.7	416.1
135°	420.8	419.7	430.4	428.6	433.6	435.8	442.6	434.0	436.5
137.5°	441.1	438.6	450.1	448.3	453.6	454.0	461.1	452.9	455.8
140°	461.1	458.3	467.9	466.8	472.9	472.2	477.5	470.8	474.7
142.5°	479.0	475.7	485.0	484.7	489.3	489.3	493.9	488.2	493.9
145°	496.4	492.2	500.7	500.4	505.4	505.0	509.3	503.9	509.3
147.5°	512.9	508.6	515.4	514.6	518.9	519.3	522.9	519.6	525.4
150°	527.9	523.9	528.2	527.9	531.8	532.1	535.7	534.3	538.6
152.5°	541.4	537.8	540.0	539.3	545.0	542.8	547.1	546.4	551.1
155°	553.9	550.3	552.1	550.7	554.6	554.3	558.9	558.2	563.5
157.5°	565.3	561.4	562.8	560.7	563.5	563.5	568.9	568.9	572.8
160°	576.4	571.0	572.8	569.3	570.3	571.8	578.2	578.2	581.7
162.5°	584.2	580.7	581.7	576.7	577.8	578.5	586.0	586.0	590.3
165°	592.8	588.2	589.2	583.2	583.5	585.3	592.8	593.2	597.8
167.5°	599.6	595.0	594.6	588.5	590.3	590.7	597.8	598.2	603.2
170°	604.9	599.9	599.9	593.5	595.0	594.2	601.7	602.8	607.1
172.5°	607.8	604.2	603.2	596.0	595.7	596.7	604.6	606.0	610.3
175°	611.4	607.1	605.3	598.5	595.7	599.2	606.4	607.8	612.8
177.5°	612.4	608.2	606.7	599.6	599.6	600.3	607.4	608.5	612.4
180°	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0

(END OF REPORT)