

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: P199552

Luminaire Tested: **S125-DIW-U2-LO-35-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199552
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-DIW-U2-LO-35-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-3500K, NO LENS
DOWNLIGHT LLO-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

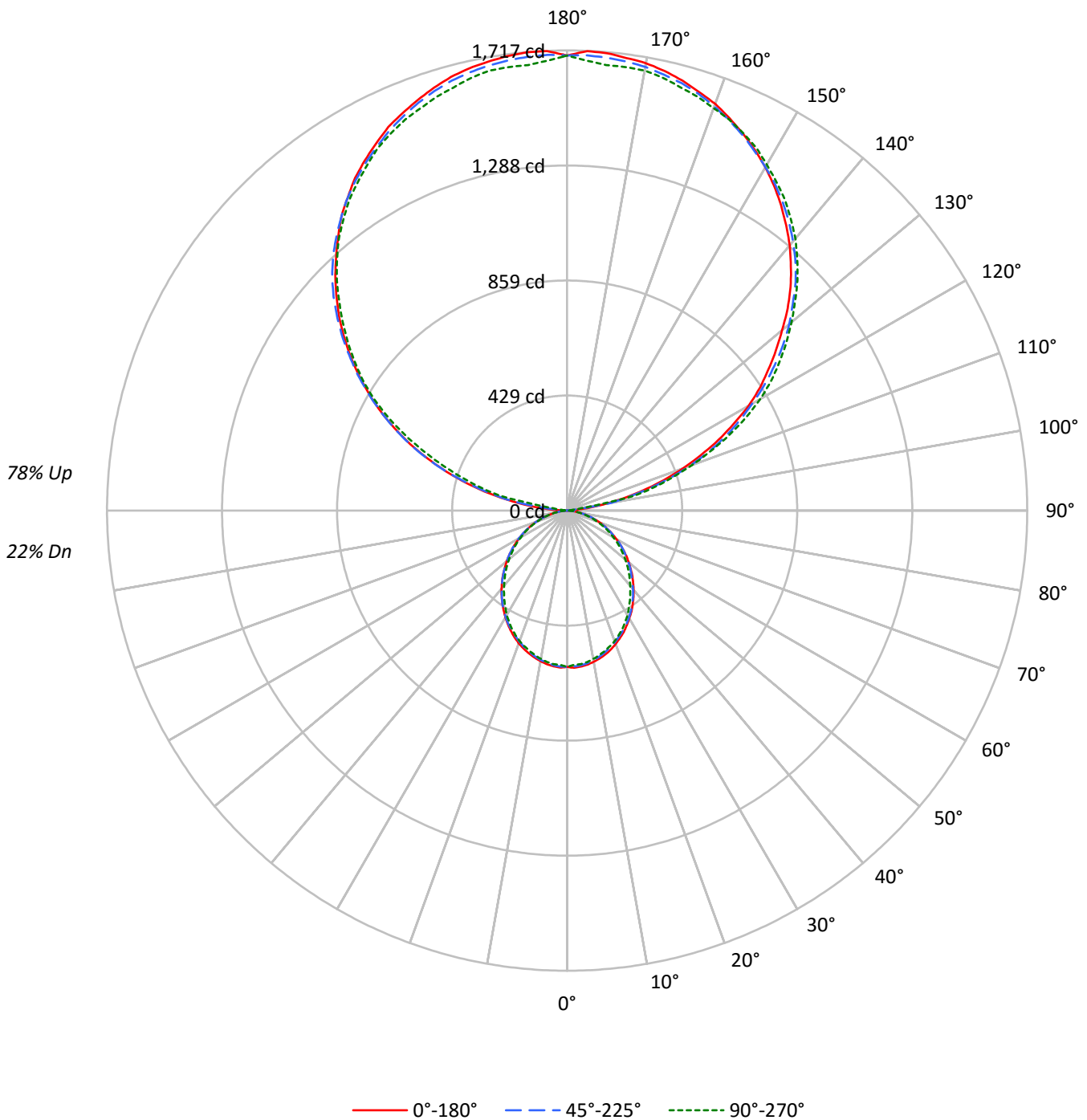
Lumens per Lamp: N/A
Luminaire Lumens: 6546.6 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Indirect

Input Watts (W): 52.3
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	0
RCR																		
0	101	101	101	101	89	89	89	89	68	68	68	48	48	48	31	31	31	22
1	92	87	84	80	81	78	75	72	59	57	56	43	41	40	27	26	26	19
2	83	76	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	28	21	20	19	13
4	69	59	52	46	61	53	46	42	41	36	33	29	27	24	19	17	16	12
5	64	53	45	39	56	47	40	35	36	32	28	26	23	21	17	15	14	10
6	58	47	39	34	52	42	35	31	33	28	24	24	21	18	15	14	12	9
7	54	42	35	29	48	38	31	27	29	25	21	21	18	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	16	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3690	3690	3690
5°	3680	3387	3674
10°	3621	3116	3608
15°	3548	2861	3525
20°	3450	2628	3434
25°	3347	2396	3318
30°	3219	2165	3194
35°	3095	1934	3059
40°	2958	1723	2918
45°	2813	1529	2772
50°	2660	1344	2609
55°	2495	1163	2436
60°	2319	985	2255
65°	2125	813	2049
70°	1898	631	1808
75°	1591	448	1482
80°	1205	279	1102
85°	719	122	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	0.8
10°-20°	153.9	2.4
20°-30°	226.2	3.5
30°-40°	261.2	4.0
40°-50°	258.9	4.0
50°-60°	224.6	3.4
60°-70°	164.0	2.5
70°-80°	89.6	1.4
80°-90°	23.3	0.4
90°-100°	53.6	0.8
100°-110°	360.7	5.5
110°-120°	661.6	10.1
120°-130°	857.7	13.1
130°-140°	931.9	14.2
140°-150°	880.8	13.5
150°-160°	716.5	10.9
160°-170°	465.9	7.1
170°-180°	161.1	2.5
0°-30°	434.9	6.6
0°-40°	696.2	10.6
0°-60°	1179.6	18.0
0°-90°	1456.6	22.3
90°-120°	1075.9	16.4
90°-150°	3746.4	57.2
90°-180°	5090.0	77.8
0°-180°	6546.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	583	583	583	583	583	
5°	584	580	575	579	583	55
15°	555	547	542	545	551	156
25°	500	493	487	491	496	230
35°	426	423	408	422	422	267
45°	343	339	325	337	338	265
55°	256	256	241	251	250	229
65°	170	168	159	164	164	168
75°	87	87	80	82	81	93
85°	20	21	19	19	18	23
90°	1	1	1	1	1	2
95°	36	11	12	17	83	53
105°	296	314	336	371	379	315
115°	623	649	668	701	698	614
125°	916	945	967	986	980	820
135°	1179	1206	1215	1240	1223	908
145°	1391	1403	1416	1427	1427	870
155°	1552	1547	1554	1566	1579	716
165°	1661	1651	1635	1661	1675	469
175°	1713	1696	1669	1699	1717	163
180°	1698	1698	1698	1698	1698	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2
2.5°	587.1	581.0	582.5	581.4	576.4	580.7	582.1	580.0	586.4
5°	584.2	578.2	579.6	578.2	575.3	577.5	578.9	576.7	583.2
7.5°	580.0	573.5	574.6	573.2	570.3	572.1	573.9	571.8	578.2
10°	572.8	566.8	567.1	565.3	562.1	564.3	566.0	564.3	570.7
12.5°	564.6	558.2	558.2	555.3	552.5	554.3	556.8	555.3	561.8
15°	555.0	548.2	547.1	545.3	542.1	544.3	545.3	545.0	551.4
17.5°	543.2	536.1	534.6	534.3	530.4	533.2	533.6	532.5	540.3
20°	529.6	522.9	521.8	521.4	518.2	520.4	520.4	518.9	527.1
22.5°	514.6	508.2	507.9	507.2	503.6	506.1	506.1	503.9	512.2
25°	500.0	492.2	493.2	491.5	487.2	490.7	491.1	487.5	495.7
27.5°	481.8	475.7	477.9	474.7	469.0	473.6	475.7	470.4	479.0
30°	464.0	457.5	461.1	455.4	450.4	454.7	458.6	451.8	460.4
32.5°	446.5	439.0	443.3	436.1	429.0	434.3	440.8	434.3	441.1
35°	426.5	420.4	422.9	415.4	408.3	413.6	421.5	415.4	421.5
37.5°	406.5	401.5	403.3	394.4	387.2	392.6	400.8	396.2	401.5
40°	385.8	382.2	382.2	373.3	366.2	371.2	379.7	377.2	380.5
42.5°	364.4	363.0	360.1	352.3	345.5	350.5	358.7	358.0	359.4
45°	343.3	343.3	338.7	330.5	324.8	329.4	336.9	338.7	338.3
47.5°	321.6	323.4	319.4	310.5	304.1	308.7	315.5	318.7	315.1
50°	299.8	303.0	298.0	290.2	283.0	288.0	293.7	298.0	294.1
52.5°	278.0	282.0	276.6	269.1	262.0	266.6	272.3	277.3	272.3
55°	255.9	260.5	255.5	247.7	240.9	245.2	250.9	255.9	249.8
57.5°	234.1	238.4	234.1	226.3	219.9	223.8	229.8	233.8	228.4
60°	212.4	217.0	212.7	205.2	199.2	202.4	208.1	212.0	206.6
62.5°	190.9	194.9	190.2	184.2	179.5	180.9	186.3	190.9	185.2
65°	169.9	173.5	168.5	163.1	159.2	159.9	164.5	167.0	163.8
67.5°	149.2	153.1	147.8	142.8	138.1	139.5	143.5	147.0	143.1
70°	128.5	132.4	126.7	122.4	118.5	119.2	122.4	126.3	122.4
72.5°	108.1	111.4	107.4	102.4	99.6	100.3	102.1	105.6	101.7
75°	87.4	91.0	86.7	82.8	79.9	80.7	81.7	84.6	81.4
77.5°	68.2	70.7	67.8	64.6	62.8	63.2	63.5	65.7	62.8
80°	50.3	52.5	50.7	48.2	46.8	46.8	46.8	48.5	46.0
82.5°	34.3	36.4	35.0	33.2	32.1	31.1	31.8	33.2	31.1
85°	20.3	22.1	21.4	19.6	18.9	18.2	18.9	19.6	17.8
87.5°	9.3	10.7	9.6	7.9	7.1	6.4	6.4	7.5	6.1
90°	0.7	1.8	1.4	1.1	0.7	0.7	1.1	1.4	0.7
92.5°	5.0	7.0	7.0	8.0	8.0	9.0	10.0	12.0	34.0
95°	36.0	40.0	11.0	12.0	12.0	13.0	17.0	97.0	83.0
97.5°	83.0	106.0	35.0	21.0	19.0	28.0	108.0	154.0	146.0
100°	148.0	165.0	167.0	109.0	74.0	153.0	213.0	230.0	219.0
102.5°	219.0	238.0	233.0	253.0	260.0	282.0	287.0	309.0	300.0
105°	296.0	317.0	314.0	334.0	336.0	361.0	371.0	384.0	379.0
107.5°	377.0	392.0	400.0	413.0	412.0	439.0	459.0	465.0	460.0
110°	460.0	470.0	485.0	494.0	494.0	521.0	544.0	545.0	540.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	539.0	556.0	570.0	581.0	579.0	608.0	624.0	627.0	621.0
115°	623.0	630.0	649.0	665.0	668.0	690.0	701.0	704.0	698.0
117.5°	700.0	711.0	723.0	742.0	752.0	766.0	774.0	779.0	773.0
120°	782.0	789.0	796.0	814.0	832.0	840.0	846.0	850.0	845.0
122.5°	853.0	858.0	873.0	885.0	903.0	909.0	918.0	917.0	913.0
125°	916.0	923.0	945.0	952.0	967.0	975.0	986.0	980.0	980.0
127.5°	982.0	988.0	1016.0	1017.0	1031.0	1040.0	1054.0	1044.0	1045.0
130°	1047.0	1057.0	1082.0	1082.0	1093.0	1103.0	1119.0	1104.0	1108.0
132.5°	1116.0	1119.0	1142.0	1143.0	1153.0	1163.0	1182.0	1162.0	1166.0
135°	1179.0	1176.0	1206.0	1201.0	1215.0	1221.0	1240.0	1216.0	1223.0
137.5°	1236.0	1229.0	1261.0	1256.0	1271.0	1272.0	1292.0	1269.0	1277.0
140°	1292.0	1284.0	1311.0	1308.0	1325.0	1323.0	1338.0	1319.0	1330.0
142.5°	1342.0	1333.0	1359.0	1358.0	1371.0	1371.0	1384.0	1368.0	1384.0
145°	1391.0	1379.0	1403.0	1402.0	1416.0	1415.0	1427.0	1412.0	1427.0
147.5°	1437.0	1425.0	1444.0	1442.0	1454.0	1455.0	1465.0	1456.0	1472.0
150°	1479.0	1468.0	1480.0	1479.0	1490.0	1491.0	1501.0	1497.0	1509.0
152.5°	1517.0	1507.0	1513.0	1511.0	1527.0	1521.0	1533.0	1531.0	1544.0
155°	1552.0	1542.0	1547.0	1543.0	1554.0	1553.0	1566.0	1564.0	1579.0
157.5°	1584.0	1573.0	1577.0	1571.0	1579.0	1579.0	1594.0	1594.0	1605.0
160°	1615.0	1600.0	1605.0	1595.0	1598.0	1602.0	1620.0	1620.0	1630.0
162.5°	1637.0	1627.0	1630.0	1616.0	1619.0	1621.0	1642.0	1642.0	1654.0
165°	1661.0	1648.0	1651.0	1634.0	1635.0	1640.0	1661.0	1662.0	1675.0
167.5°	1680.0	1667.0	1666.0	1649.0	1654.0	1655.0	1675.0	1676.0	1690.0
170°	1695.0	1681.0	1681.0	1663.0	1667.0	1665.0	1686.0	1689.0	1701.0
172.5°	1703.0	1693.0	1690.0	1670.0	1669.0	1672.0	1694.0	1698.0	1710.0
175°	1713.0	1701.0	1696.0	1677.0	1669.0	1679.0	1699.0	1703.0	1717.0
177.5°	1716.0	1704.0	1700.0	1680.0	1680.0	1682.0	1702.0	1705.0	1716.0
180°	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0

(END OF REPORT)