

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1026065

Luminaire Tested: S124RDIP-B1020D810UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026065
REPORT IS A COMBINATION OF REPORTS P999005 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1020D810UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

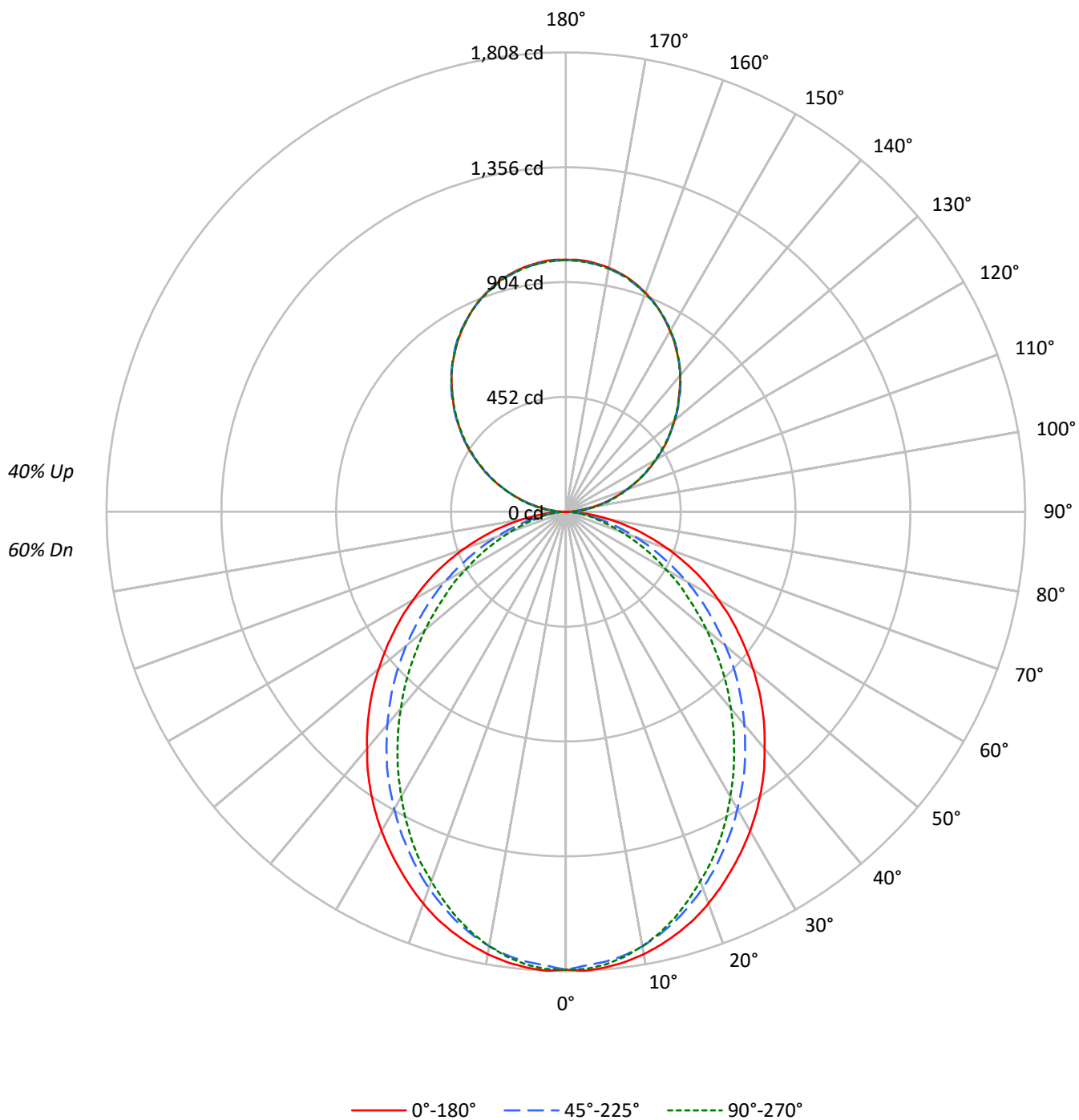
Lumens per Lamp: N/A
Luminaire Lumens: 6918.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.9
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	58	57	56
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	41	38	36
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31
6	65	53	45	39	61	50	43	38	44	39	34	39	34	31	34	30	28
7	60	48	40	35	56	45	38	33	40	35	30	36	31	27	31	27	25
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22
9	52	40	33	28	49	38	31	26	34	28	24	30	26	22	27	23	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14699	14699	14699
5°	14700	14262	14264
10°	14576	13812	13648
15°	14375	13252	12922
20°	14113	12613	12093
25°	13785	11923	11284
30°	13464	11220	10375
35°	13112	10508	9487
40°	12692	9740	8574
45°	12298	8979	7671
50°	11851	8148	6753
55°	11367	7296	5807
60°	10831	6391	4872
65°	10312	5353	3970
70°	9575	4261	3035
75°	8631	3101	2122
80°	7210	1904	1525
85°	5421	1097	838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	2.5
10°-20°	472.6	6.8
20°-30°	682.3	9.9
30°-40°	773.3	11.2
40°-50°	746.6	10.8
50°-60°	620.7	9.0
60°-70°	428.4	6.2
70°-80°	216.5	3.1
80°-90°	57.1	0.8
90°-100°	64.6	0.9
100°-110°	193.6	2.8
110°-120°	328.8	4.8
120°-130°	433.7	6.3
130°-140°	487.1	7.0
140°-150°	478.7	6.9
150°-160°	402.7	5.8
160°-170°	267.9	3.9
170°-180°	93.8	1.4
0°-30°	1324.4	19.1
0°-40°	2097.7	30.3
0°-60°	3465.1	50.1
0°-90°	4167.1	60.2
90°-120°	587.0	8.5
90°-150°	1986.5	28.7
90°-180°	2751.0	39.8
0°-180°	6918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1800	1794	1778	1792	1789	171
15°	1714	1702	1667	1664	1655	483
25°	1550	1525	1468	1445	1431	714
35°	1340	1296	1227	1180	1155	838
45°	1093	1042	959	892	867	843
55°	828	773	683	611	585	741
65°	563	504	415	356	340	556
75°	300	248	184	152	144	316
85°	74	47	43	40	40	82
90°	2	11	17	22	23	8
95°	46	53	58	61	61	50
105°	179	179	182	185	187	189
115°	334	334	333	332	331	330
125°	487	487	486	485	483	434
135°	628	633	633	631	629	486
145°	763	766	767	766	764	478
155°	874	874	873	876	873	402
165°	952	949	948	952	949	268
175°	990	986	985	991	985	94
180°	991	991	991	991	991	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.6	1802.6	1802.6	1802.6	1802.6
2.5°	1808.1	1802.6	1787.4	1802.6	1801.2
5°	1799.8	1794.3	1777.7	1791.5	1788.8
7.5°	1787.4	1781.9	1761.2	1770.8	1766.7
10°	1768.1	1761.2	1736.3	1741.8	1736.3
12.5°	1743.2	1734.9	1704.6	1707.3	1699.0
15°	1714.2	1701.8	1667.3	1664.5	1654.9
17.5°	1681.1	1663.2	1623.1	1616.2	1602.4
20°	1641.1	1623.1	1576.2	1565.2	1547.2
22.5°	1596.9	1576.2	1525.1	1507.2	1493.4
25°	1550.0	1525.1	1468.5	1445.1	1431.3
27.5°	1501.7	1471.3	1412.0	1384.4	1365.0
30°	1450.6	1416.1	1351.2	1316.7	1294.6
32.5°	1396.8	1356.7	1289.1	1247.7	1227.0
35°	1340.2	1296.0	1227.0	1180.1	1155.2
37.5°	1280.8	1235.3	1159.4	1108.3	1083.5
40°	1217.3	1171.8	1093.1	1035.2	1010.3
42.5°	1156.6	1108.3	1025.5	966.1	939.9
45°	1093.1	1042.1	959.2	891.6	866.8
47.5°	1028.3	975.8	890.2	819.8	792.2
50°	962.0	908.2	819.8	750.8	724.6
52.5°	894.4	841.9	750.8	680.4	652.8
55°	828.1	772.9	683.2	611.4	585.2
57.5°	763.3	705.3	617.0	543.8	524.5
60°	692.9	637.7	549.3	477.6	455.5
62.5°	629.4	571.4	480.3	415.4	398.9
65°	563.1	503.8	415.4	356.1	339.5
67.5°	494.1	437.5	354.7	302.3	282.9
70°	429.2	371.3	292.6	247.1	233.3
72.5°	360.2	309.2	236.0	198.8	186.3
75°	299.5	248.4	183.6	151.8	143.5
77.5°	236.0	191.8	136.6	114.6	111.8
80°	175.3	135.3	93.9	89.7	88.3
82.5°	122.8	87.0	67.6	64.9	63.5
85°	74.5	46.9	42.8	40.0	40.0
87.5°	31.7	20.7	19.3	17.9	19.3
90°	2.3	10.7	16.9	21.5	23.0
92.5°	19.9	29.9	33.7	36.0	36.8
95°	46.0	52.9	58.3	60.6	60.6
97.5°	73.6	79.7	85.9	88.9	88.9
100°	107.3	110.4	117.3	118.9	118.9
102.5°	142.6	143.4	149.5	151.8	152.6
105°	178.7	179.4	182.5	184.8	187.1
107.5°	216.2	217.0	217.8	220.8	220.1
110°	254.6	256.1	255.3	253.8	256.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	294.4	294.4	292.9	292.9	292.9
115°	334.3	334.3	332.8	332.0	331.2
117.5°	371.9	371.9	371.1	368.8	366.5
120°	409.5	412.5	410.2	406.4	407.9
122.5°	448.6	449.3	448.6	446.3	442.4
125°	486.9	486.9	486.1	484.6	483.1
127.5°	521.4	523.7	522.2	520.6	519.9
130°	558.2	560.5	560.5	559.0	555.9
132.5°	595.8	597.3	596.6	595.0	594.3
135°	628.0	632.6	632.6	631.1	628.8
137.5°	664.0	666.3	667.9	665.6	666.3
140°	700.1	701.6	701.6	700.8	700.1
142.5°	733.0	734.6	733.8	733.8	733.8
145°	762.9	766.0	766.8	766.0	763.7
147.5°	793.6	797.4	796.7	795.9	795.1
150°	821.2	824.3	824.3	824.3	823.5
152.5°	847.3	848.8	849.6	851.9	849.6
155°	874.1	874.1	873.4	876.4	873.4
157.5°	897.1	895.6	895.6	897.9	895.6
160°	917.1	916.3	915.5	917.8	914.0
162.5°	935.5	933.2	932.4	937.0	933.2
165°	951.6	949.3	947.7	952.3	949.3
167.5°	964.6	961.5	961.5	966.1	961.5
170°	975.3	971.5	972.3	976.9	971.5
172.5°	983.0	979.9	979.9	985.3	979.9
175°	989.9	986.1	985.3	990.7	985.3
177.5°	993.0	989.1	989.1	994.5	988.4
180°	991.4	991.4	991.4	991.4	991.4

(END OF REPORT)