

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: P1026005

Luminaire Tested: S124RDIP-B1020D365UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026005
REPORT IS A COMBINATION OF REPORTS P998925 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1020D365UB35-4F0-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

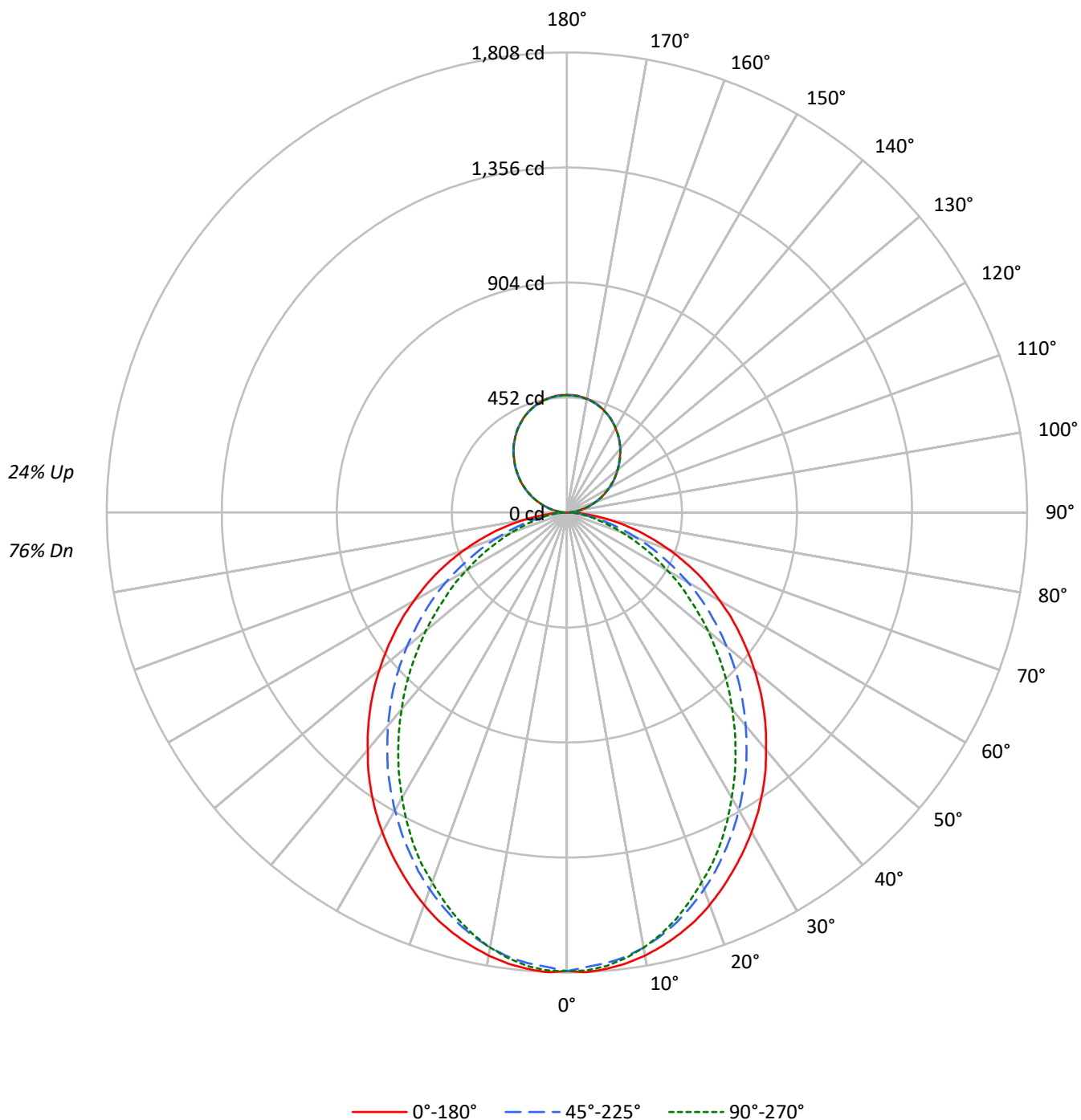
Lumens per Lamp: N/A
Luminaire Lumens: 5447.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69
2	95	88	81	76	90	84	78	74	77	72	68	70	66	63	64	61	59
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44
5	74	62	53	47	70	59	52	46	55	48	43	50	45	41	46	42	38
6	68	56	47	41	65	54	46	40	49	43	38	46	40	36	42	38	34
7	63	51	42	37	60	49	41	36	45	39	34	42	36	32	39	34	30
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27
9	55	42	35	29	52	41	34	29	38	32	27	35	30	26	33	28	25
10	52	39	32	27	49	38	31	26	35	29	25	33	28	24	31	26	23

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	3.1
10°-20°	472.6	8.7
20°-30°	682.3	12.5
30°-40°	773.3	14.2
40°-50°	746.6	13.7
50°-60°	620.7	11.4
60°-70°	428.4	7.9
70°-80°	216.5	4.0
80°-90°	56.0	1.0
90°-100°	30.1	0.6
100°-110°	90.1	1.7
110°-120°	153.1	2.8
120°-130°	201.9	3.7
130°-140°	226.8	4.2
140°-150°	222.9	4.1
150°-160°	187.5	3.4
160°-170°	124.8	2.3
170°-180°	43.7	0.8
0°-30°	1324.4	24.3
0°-40°	2097.7	38.5
0°-60°	3465.1	63.6
0°-90°	4166.0	76.5
90°-120°	273.3	5.0
90°-150°	925.1	17.0
90°-180°	1281.0	23.5
0°-180°	5447.0	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°	1	5	8	10	11	6
95°	21	25	27	28	28	23
105°	83	84	85	86	87	88
115°	156	156	155	155	154	154
125°	227	227	226	226	225	202
135°	292	295	295	294	293	226
145°	355	357	357	357	356	222
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	

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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°	1.1	5.0	7.9	10.0	10.7
92.5°	9.3	13.9	15.7	16.8	17.1
95°	21.4	24.6	27.1	28.2	28.2
97.5°	34.3	37.1	40.0	41.4	41.4
100°	50.0	51.4	54.6	55.3	55.3
102.5°	66.4	66.8	69.6	70.7	71.1
105°	83.2	83.6	85.0	86.1	87.1
107.5°	100.7	101.0	101.4	102.8	102.5
110°	118.5	119.3	118.9	118.2	119.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.1	137.1	136.4	136.4	136.4
115°	155.7	155.7	155.0	154.6	154.3
117.5°	173.2	173.2	172.8	171.7	170.7
120°	190.7	192.1	191.0	189.2	190.0
122.5°	208.9	209.2	208.9	207.8	206.0
125°	226.7	226.7	226.4	225.7	225.0
127.5°	242.8	243.9	243.2	242.4	242.1
130°	259.9	261.0	261.0	260.3	258.9
132.5°	277.4	278.2	277.8	277.1	276.7
135°	292.4	294.6	294.6	293.9	292.8
137.5°	309.2	310.3	311.0	309.9	310.3
140°	326.0	326.7	326.7	326.4	326.0
142.5°	341.4	342.1	341.7	341.7	341.7
145°	355.3	356.7	357.1	356.7	355.6
147.5°	369.6	371.3	371.0	370.6	370.3
150°	382.4	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

(END OF REPORT)