

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: P1025250

Luminaire Tested: S124DIP-B1195D810UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025250
REPORT IS A COMBINATION OF REPORTS P995715 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D810UB50-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

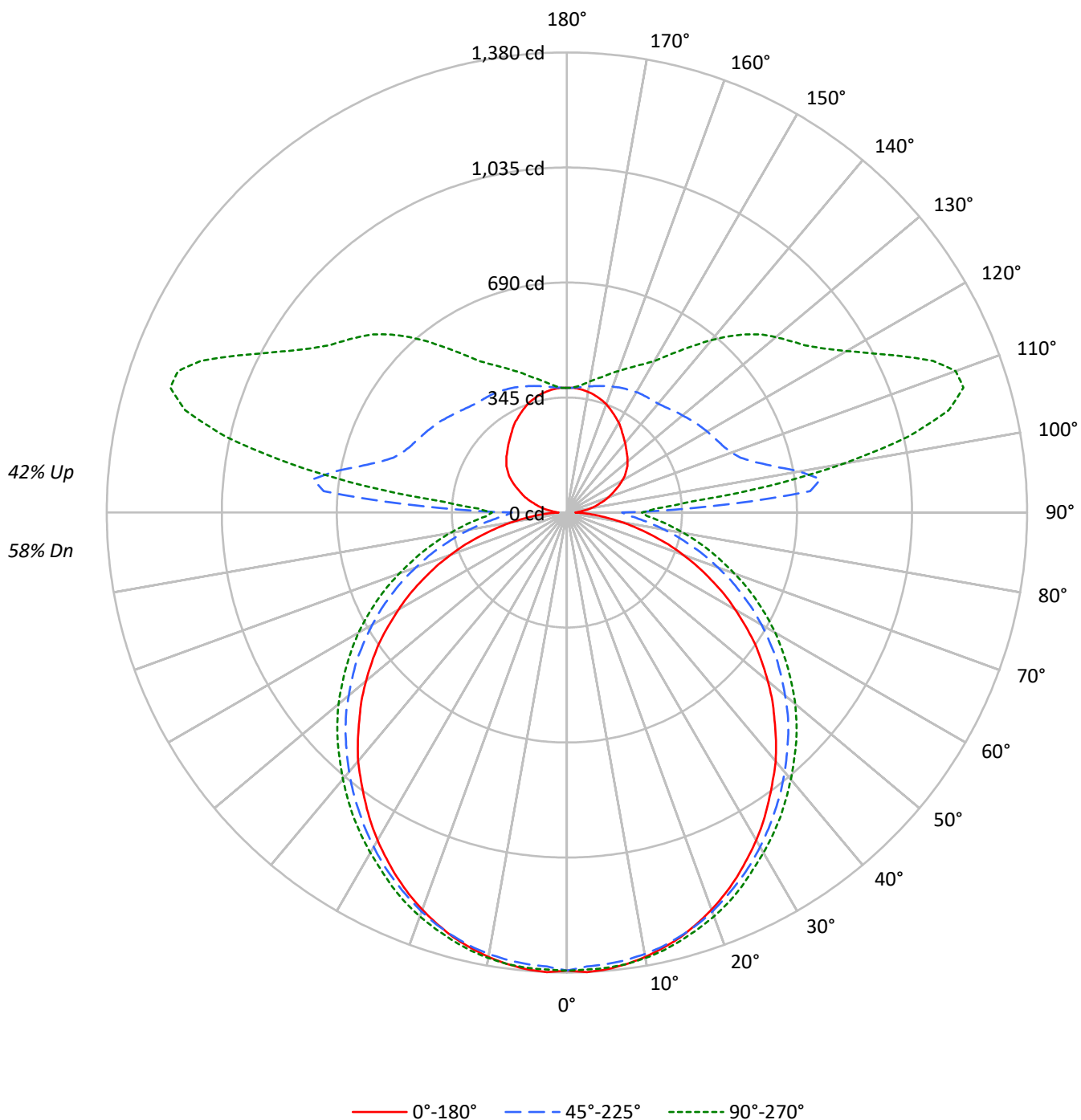
Lumens per Lamp: N/A
Luminaire Lumens: 7414.4 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88		75	75	75		64
1	99	94	89	85	92	87	83	80	75	73	70		65	62	60		55
2	89	81	74	69	83	76	70	65	65	61	57		56	53	50		47
3	81	71	63	57	75	66	59	53	57	52	47		49	45	41		42
4	74	62	54	48	69	58	51	45	51	45	40		44	39	35		37
5	68	56	47	41	63	52	44	38	45	39	34		39	34	30		33
6	62	50	41	35	58	47	39	33	41	34	30		35	30	26		30
7	58	45	36	31	54	42	34	29	37	31	26		32	27	23		27
8	54	41	33	27	50	38	31	26	34	27	23		29	24	21		25
9	50	37	29	24	46	35	28	23	31	25	21		27	22	18		23
10	47	34	27	22	43	32	25	21	28	23	19		25	20	17		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11205	11205	11205
5°	11236	10913	10933
10°	11163	10699	10668
15°	11059	10457	10369
20°	10904	10196	10078
25°	10729	9908	9765
30°	10541	9622	9446
35°	10327	9330	9162
40°	10156	9050	8867
45°	9903	8787	8607
50°	9686	8488	8332
55°	9463	8201	8017
60°	9117	7842	7719
65°	8735	7456	7361
70°	8272	7013	6947
75°	7628	6522	6553
80°	6897	6023	6141
85°	5938	5520	5806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9903 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.8
10°-20°	373.1	5.0
20°-30°	564.1	7.6
30°-40°	682.4	9.2
40°-50°	721.4	9.7
50°-60°	678.9	9.2
60°-70°	563.4	7.6
70°-80°	395.4	5.3
80°-90°	224.3	3.0
90°-100°	410.4	5.5
100°-110°	663.0	8.9
110°-120°	569.3	7.7
120°-130°	460.0	6.2
130°-140°	368.9	5.0
140°-150°	272.6	3.7
150°-160°	189.4	2.6
160°-170°	111.4	1.5
170°-180°	36.2	0.5
0°-30°	1067.3	14.4
0°-40°	1749.7	23.6
0°-60°	3150.1	42.5
0°-90°	4333.2	58.4
90°-120°	1642.7	22.2
90°-150°	2744.2	37.0
90°-180°	3081.0	41.6
0°-180°	7414.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1376	1371	1360	1373	1371	131
15°	1319	1320	1316	1330	1328	372
25°	1206	1216	1220	1237	1239	556
35°	1056	1074	1090	1111	1116	661
45°	880	909	939	965	972	680
55°	689	722	768	799	808	614
65°	477	526	579	617	629	473
75°	265	322	386	429	443	281
85°	82	146	215	262	277	85
90°	25	92	166	212	225	18
95°	44	147	732	472	368	42
105°	100	169	583	1177	1186	107
115°	160	213	502	932	1109	160
125°	217	255	470	775	873	194
135°	254	301	438	662	756	196
145°	290	330	422	535	593	182
155°	328	354	410	464	484	151
165°	358	369	393	416	422	101
175°	373	374	377	382	380	35
180°	374	374	374	374	374	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.1	1374.1	1374.1	1374.1	1374.1
2.5°	1380.3	1375.7	1363.4	1374.1	1372.6
5°	1375.7	1371.1	1360.3	1372.6	1371.1
7.5°	1366.4	1363.4	1354.1	1368.0	1366.4
10°	1354.1	1352.6	1344.9	1358.8	1357.2
12.5°	1337.2	1337.2	1332.6	1344.9	1344.9
15°	1318.7	1320.3	1315.7	1329.5	1328.0
17.5°	1294.1	1298.7	1297.2	1311.0	1309.5
20°	1268.0	1272.6	1274.1	1289.5	1289.5
22.5°	1238.7	1244.9	1248.0	1263.3	1266.4
25°	1206.4	1215.6	1220.3	1237.2	1238.7
27.5°	1171.0	1184.9	1191.0	1206.4	1207.9
30°	1135.6	1147.9	1158.7	1175.6	1178.7
32.5°	1097.2	1112.5	1124.9	1144.9	1147.9
35°	1055.6	1074.1	1089.5	1111.0	1115.6
37.5°	1014.1	1035.6	1054.1	1075.6	1080.2
40°	974.1	994.1	1015.6	1038.7	1044.8
42.5°	927.9	951.0	977.1	1003.3	1007.9
45°	880.2	909.4	938.7	964.8	972.5
47.5°	835.6	864.8	898.7	924.8	934.0
50°	786.3	820.2	854.0	884.8	894.0
52.5°	737.1	770.9	810.9	841.7	850.9
55°	689.4	721.7	767.9	798.6	807.9
57.5°	635.5	675.5	720.2	757.1	764.8
60°	583.2	623.2	674.0	709.4	721.7
62.5°	532.4	577.0	627.8	663.2	675.5
65°	477.0	526.3	578.6	617.1	629.4
67.5°	424.7	477.0	532.4	570.9	583.2
70°	370.8	423.2	481.6	523.2	534.0
72.5°	318.5	372.4	435.5	475.5	487.8
75°	264.7	321.6	386.2	429.3	443.2
77.5°	213.9	273.9	341.6	384.7	400.1
80°	167.7	229.3	297.0	343.1	355.5
82.5°	121.6	186.2	253.9	301.6	315.5
85°	81.6	146.2	215.4	261.6	277.0
87.5°	50.8	113.9	181.6	226.2	240.1
90°	25.3	92.1	165.5	211.7	224.7
92.5°	33.4	133.4	431.0	281.3	265.3
95°	44.2	147.2	732.4	471.7	368.5
97.5°	58.9	147.6	766.6	771.3	610.4
100°	72.7	152.4	707.4	995.7	842.7
102.5°	87.4	159.5	637.3	1132.0	1046.5
105°	99.7	169.0	583.4	1177.4	1185.6
107.5°	116.6	180.6	545.6	1153.2	1246.9
110°	132.0	190.7	525.4	1085.1	1240.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.7	202.1	511.1	1004.0	1188.1
115°	160.5	213.0	501.9	931.6	1109.1
117.5°	176.6	224.1	493.5	871.6	1033.2
120°	191.3	233.4	485.8	828.4	968.1
122.5°	206.0	243.8	477.4	798.2	914.8
125°	217.0	255.0	470.5	774.8	873.3
127.5°	228.7	268.2	461.3	750.5	845.0
130°	236.7	279.6	452.9	724.8	818.1
132.5°	246.2	290.6	446.0	695.8	790.6
135°	253.5	301.2	437.5	662.0	755.7
137.5°	262.3	308.8	431.4	627.9	716.3
140°	271.9	317.3	426.1	594.4	675.6
142.5°	280.6	325.0	423.0	564.4	632.6
145°	290.1	330.5	421.5	535.0	593.4
147.5°	301.1	337.0	419.3	509.4	556.3
150°	311.4	343.4	417.1	491.3	524.4
152.5°	319.5	349.2	413.5	477.4	502.3
155°	328.3	354.4	409.8	464.1	484.0
157.5°	337.1	359.1	406.1	451.6	467.1
160°	345.2	363.2	401.7	439.2	451.7
162.5°	352.5	366.4	397.3	427.0	437.0
165°	357.7	368.7	392.9	416.0	422.3
167.5°	363.5	370.5	388.5	406.5	410.5
170°	367.2	372.0	384.1	396.9	399.5
172.5°	370.9	373.0	379.7	388.5	388.5
175°	373.1	373.8	376.7	381.9	380.4
177.5°	374.5	373.8	374.5	377.1	374.5
180°	373.8	373.8	373.8	373.8	373.8

(END OF REPORT)