

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: P1027381

Luminaire Tested: S125DIP-B1090D1270UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027381
REPORT IS A COMBINATION OF REPORTS P1001326 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

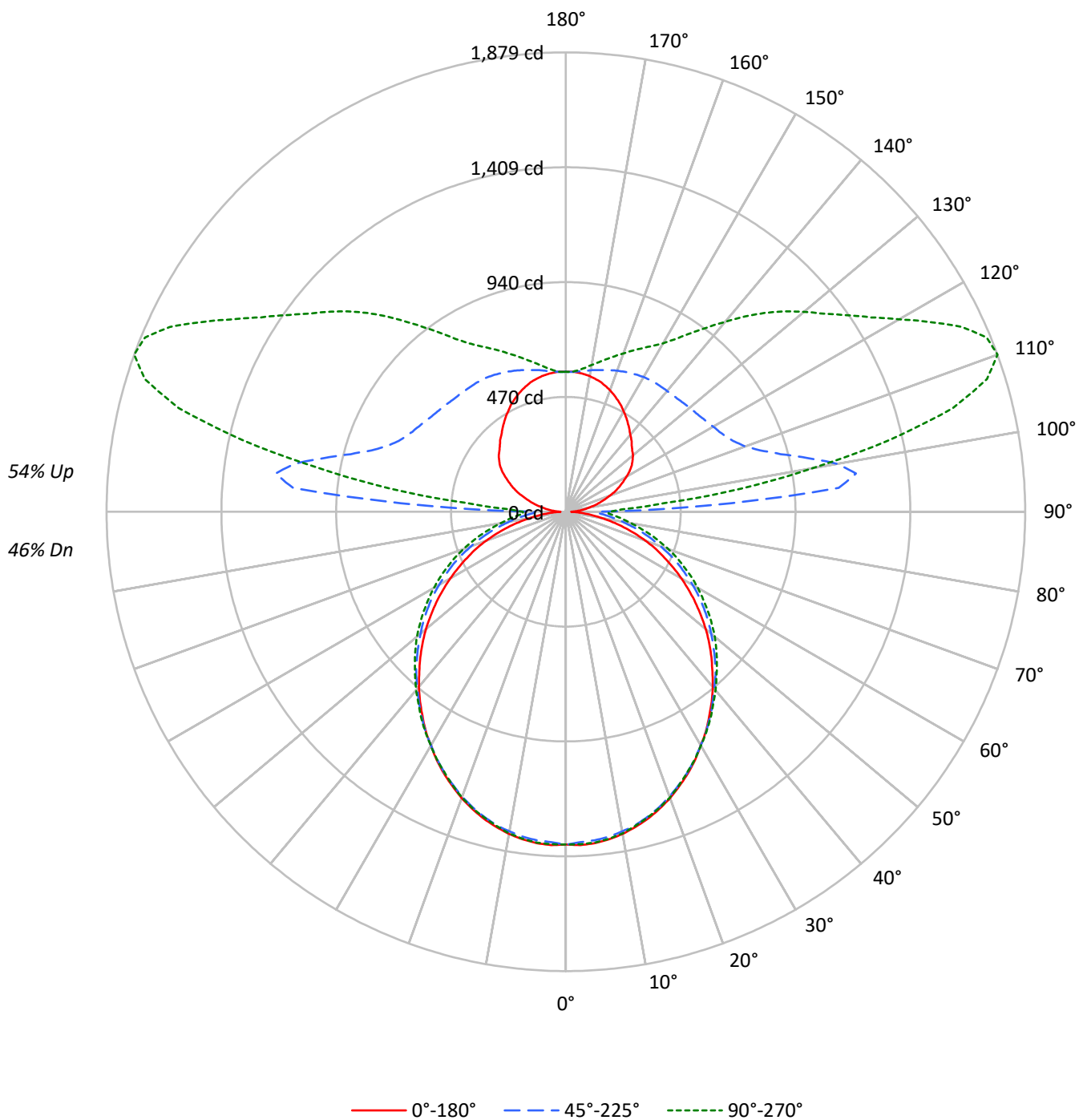
Lumens per Lamp: N/A
Luminaire Lumens: 8528.8 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46		
1	96	92	88	84	88	84	81	77	70	68	65	57	56	54	46	44	43	38		
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36	31		
3	80	70	62	56	73	64	58	52	54	49	45	44	40	37	35	32	30	26		
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22		
5	67	55	46	40	61	51	43	38	42	37	33	35	31	27	28	25	22	19		
6	61	49	41	35	56	45	38	33	38	32	28	32	27	24	25	22	20	17		
7	57	44	36	30	52	41	34	29	35	29	25	29	24	21	23	20	17	15		
8	52	40	32	27	48	37	30	25	31	26	22	26	22	19	21	18	16	13		
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12		
10	46	33	26	21	42	31	24	20	26	21	18	22	18	15	18	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.5
10°-20°	365.6	4.3
20°-30°	543.6	6.4
30°-40°	643.8	7.5
40°-50°	665.6	7.8
50°-60°	613.2	7.2
60°-70°	495.7	5.8
70°-80°	331.7	3.9
80°-90°	173.7	2.0
90°-100°	527.9	6.2
100°-110°	967.0	11.3
110°-120°	884.4	10.4
120°-130°	704.1	8.3
130°-140°	555.8	6.5
140°-150°	413.0	4.8
150°-160°	289.1	3.4
160°-170°	170.4	2.0
170°-180°	55.4	0.6
0°-30°	1038.0	12.2
0°-40°	1681.9	19.7
0°-60°	2960.7	34.7
0°-90°	3961.7	46.5
90°-120°	2379.3	27.9
90°-150°	4052.1	47.5
90°-180°	4567.0	53.5
0°-180°	8528.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	74	128	164	176	17
95°	55	165	1120	591	408	53
105°	142	216	910	1748	1639	150
115°	241	298	724	1525	1788	238
125°	329	383	675	1204	1402	292
135°	381	457	650	994	1150	296
145°	442	505	642	806	892	277
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	22.5	74.4	127.9	164.4	176.0
92.5°	36.0	152.1	564.8	256.4	228.2
95°	55.4	164.6	1120.5	591.0	407.5
97.5°	74.9	169.8	1197.1	958.4	724.1
100°	95.5	182.4	1128.1	1298.2	1022.1
102.5°	118.4	198.6	1013.1	1584.7	1357.1
105°	142.5	215.8	910.5	1748.4	1639.4
107.5°	165.4	235.5	833.6	1790.9	1805.9
110°	190.6	256.3	780.9	1738.8	1879.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.1	277.0	747.9	1636.8	1863.1
115°	241.2	298.4	724.0	1524.6	1788.4
117.5°	263.0	320.4	708.3	1421.0	1680.3
120°	286.1	342.6	696.1	1334.2	1574.3
122.5°	309.0	363.0	684.9	1262.4	1479.9
125°	328.6	382.7	675.0	1204.4	1401.6
127.5°	343.5	403.4	667.4	1152.8	1330.5
130°	358.5	424.2	661.0	1101.8	1271.8
132.5°	368.7	442.6	655.7	1047.4	1213.2
135°	381.4	456.8	650.4	993.9	1150.1
137.5°	397.6	471.3	647.6	939.6	1083.4
140°	410.1	483.4	644.7	889.0	1014.6
142.5°	426.2	493.6	643.2	845.1	950.3
145°	442.4	505.2	642.0	806.3	891.9
147.5°	458.4	515.6	639.7	773.4	837.8
150°	473.4	524.8	636.2	747.1	795.7
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)