

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: P1027354

Luminaire Tested: S125DIP-B1090D1270UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027354
REPORT IS A COMBINATION OF REPORTS P1001284 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

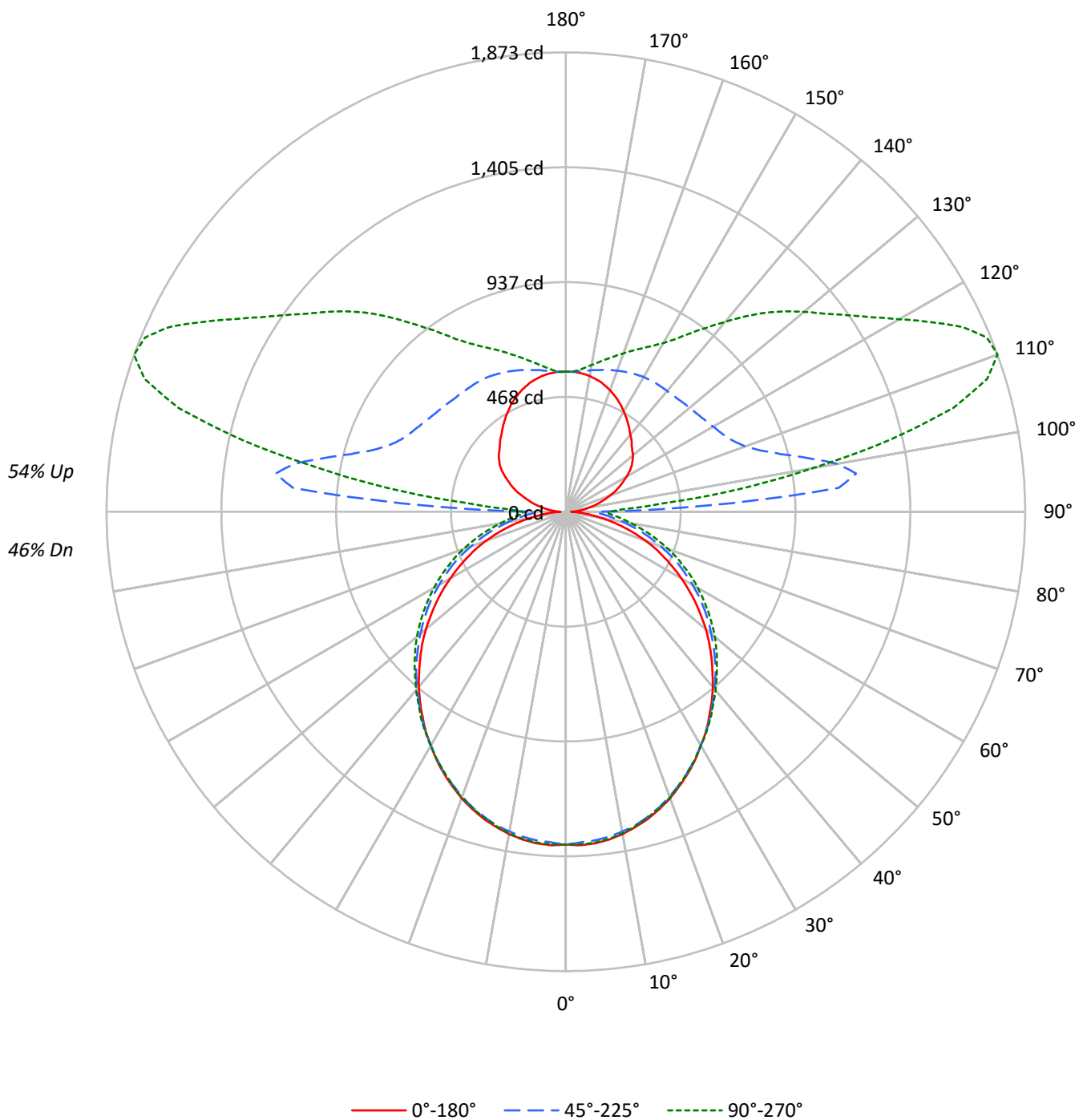
Lumens per Lamp: N/A
Luminaire Lumens: 8503.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				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	50	30	10	0
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°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.5
10°-20°	364.6	4.3
20°-30°	542.1	6.4
30°-40°	642.0	7.5
40°-50°	663.7	7.8
50°-60°	611.4	7.2
60°-70°	494.3	5.8
70°-80°	330.7	3.9
80°-90°	173.2	2.0
90°-100°	526.3	6.2
100°-110°	964.1	11.3
110°-120°	881.7	10.4
120°-130°	701.9	8.3
130°-140°	554.1	6.5
140°-150°	411.7	4.8
150°-160°	288.2	3.4
160°-170°	169.9	2.0
170°-180°	55.2	0.6
0°-30°	1035.1	12.2
0°-40°	1677.1	19.7
0°-60°	2952.3	34.7
0°-90°	3950.5	46.5
90°-120°	2372.1	27.9
90°-150°	4039.9	47.5
90°-180°	4553.0	53.5
0°-180°	8503.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	74	128	164	176	17
95°	55	164	1117	589	406	53
105°	142	215	908	1743	1634	150
115°	240	298	722	1520	1783	237
125°	328	382	673	1201	1397	291
135°	380	455	648	991	1147	295
145°	441	504	640	804	889	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	22.5	74.2	127.5	163.8	175.5
92.5°	35.9	151.6	563.1	255.6	227.6
95°	55.3	164.1	1117.1	589.2	406.2
97.5°	74.7	169.4	1193.5	955.4	722.0
100°	95.2	181.9	1124.7	1294.2	1019.0
102.5°	118.1	198.0	1010.0	1579.9	1353.1
105°	142.1	215.2	907.8	1743.2	1634.4
107.5°	164.9	234.8	831.1	1785.6	1800.4
110°	190.0	255.6	778.5	1733.4	1873.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.5	276.3	745.6	1631.9	1857.6
115°	240.5	297.6	721.9	1520.0	1783.0
117.5°	262.3	319.5	706.2	1416.7	1675.2
120°	285.3	341.6	693.9	1330.2	1569.5
122.5°	308.1	361.8	682.9	1258.5	1475.4
125°	327.6	381.6	673.0	1200.8	1397.3
127.5°	342.5	402.2	665.4	1149.2	1326.4
130°	357.4	422.9	659.1	1098.4	1268.0
132.5°	367.6	441.3	653.8	1044.2	1209.5
135°	380.3	455.4	648.4	990.9	1146.7
137.5°	396.4	469.8	645.6	936.6	1080.1
140°	408.8	482.0	642.8	886.4	1011.5
142.5°	424.9	492.1	641.2	842.6	947.5
145°	441.1	503.6	640.1	803.9	889.2
147.5°	457.0	514.0	637.8	771.1	835.3
150°	472.0	523.2	634.3	744.8	793.3
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)