

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: P1027308

Luminaire Tested: S125DIP-B1090D1090UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027308
REPORT IS A COMBINATION OF REPORTS P1001223 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

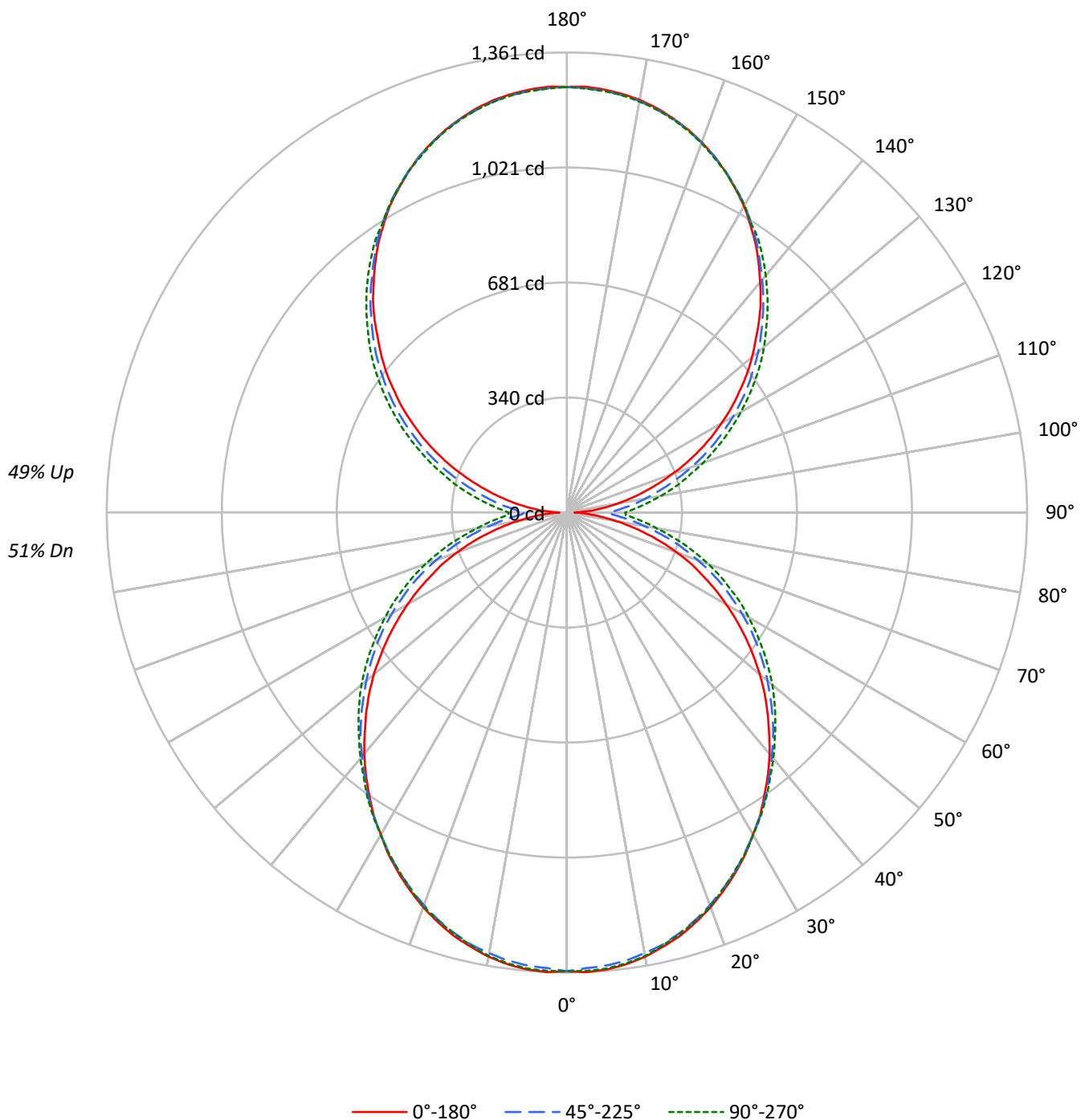
Lumens per Lamp: N/A
Luminaire Lumens: 7720.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	93	88	85	90	86	82	79	73	70	67	60	59	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39
3	80	70	63	57	74	65	59	53	55	50	46	46	42	39	38	35	33
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	31	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	19	17
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14

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	1.7
10°-20°	364.6	4.7
20°-30°	542.1	7.0
30°-40°	642.0	8.3
40°-50°	663.7	8.6
50°-60°	611.4	7.9
60°-70°	494.3	6.4
70°-80°	330.7	4.3
80°-90°	172.9	2.2
90°-100°	180.0	2.3
100°-110°	319.7	4.1
110°-120°	469.4	6.1
120°-130°	582.2	7.5
130°-140°	634.1	8.2
140°-150°	612.3	7.9
150°-160°	512.4	6.6
160°-170°	340.6	4.4
170°-180°	119.2	1.5
0°-30°	1035.1	13.4
0°-40°	1677.1	21.7
0°-60°	2952.3	38.2
0°-90°	3950.2	51.2
90°-120°	969.1	12.6
90°-150°	2797.7	36.2
90°-180°	3770.0	48.8
0°-180°	7720.0	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	73	125	160	172	19
95°	81	118	172	209	220	80
105°	235	262	307	340	352	251
115°	430	444	480	503	510	426
125°	622	626	654	673	679	557
135°	804	809	819	836	839	620
145°	972	975	978	985	987	608
155°	1111	1111	1112	1116	1111	512
165°	1208	1206	1207	1211	1205	341
175°	1256	1252	1252	1258	1251	119
180°	1259	1259	1259	1259	1259	

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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°	22.3	72.7	124.8	160.3	172.5
92.5°	48.0	91.5	146.9	183.0	194.3
95°	81.0	117.5	172.5	208.7	220.0
97.5°	114.0	146.9	204.5	238.3	248.6
100°	151.8	179.8	235.1	271.8	281.8
102.5°	192.6	222.8	268.9	305.3	316.2
105°	235.4	261.6	307.4	339.9	352.1
107.5°	282.0	305.6	349.1	378.7	386.6
110°	330.7	351.6	391.7	420.0	428.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.6	395.6	435.4	460.4	467.7
115°	430.3	443.5	480.1	503.0	510.0
117.5°	480.0	487.5	522.8	546.4	551.8
120°	527.0	535.8	567.4	590.1	594.1
122.5°	576.5	578.9	611.1	631.4	636.4
125°	621.6	626.2	653.8	673.1	678.7
127.5°	670.3	671.9	695.5	714.4	720.5
130°	714.4	718.0	738.5	756.2	760.9
132.5°	757.2	766.0	778.3	795.9	798.3
135°	804.2	808.7	819.0	836.3	839.1
137.5°	848.3	852.8	860.1	877.0	877.4
140°	889.0	893.9	898.3	914.8	915.2
142.5°	931.2	933.8	937.7	950.7	951.1
145°	972.3	974.9	977.9	984.6	986.9
147.5°	1009.2	1012.2	1014.1	1019.8	1014.5
150°	1047.5	1046.5	1050.4	1050.4	1049.7
152.5°	1078.8	1080.8	1081.7	1084.7	1080.8
155°	1111.1	1111.1	1112.1	1116.0	1111.1
157.5°	1140.5	1138.6	1139.6	1143.5	1136.6
160°	1166.0	1163.1	1164.1	1168.0	1163.1
162.5°	1188.5	1186.6	1186.6	1191.5	1185.6
165°	1208.1	1206.2	1207.2	1211.1	1205.2
167.5°	1225.8	1221.9	1221.9	1227.7	1221.9
170°	1239.5	1235.6	1235.6	1241.5	1234.6
172.5°	1249.3	1245.4	1245.4	1251.3	1245.4
175°	1256.2	1252.2	1252.2	1258.1	1251.3
177.5°	1261.1	1257.1	1256.2	1262.0	1255.2
180°	1259.1	1259.1	1259.1	1259.1	1259.1

(END OF REPORT)