

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: P1024908

Luminaire Tested: S124DIP-B1020D365UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024908
REPORT IS A COMBINATION OF REPORTS P995268 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D365UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

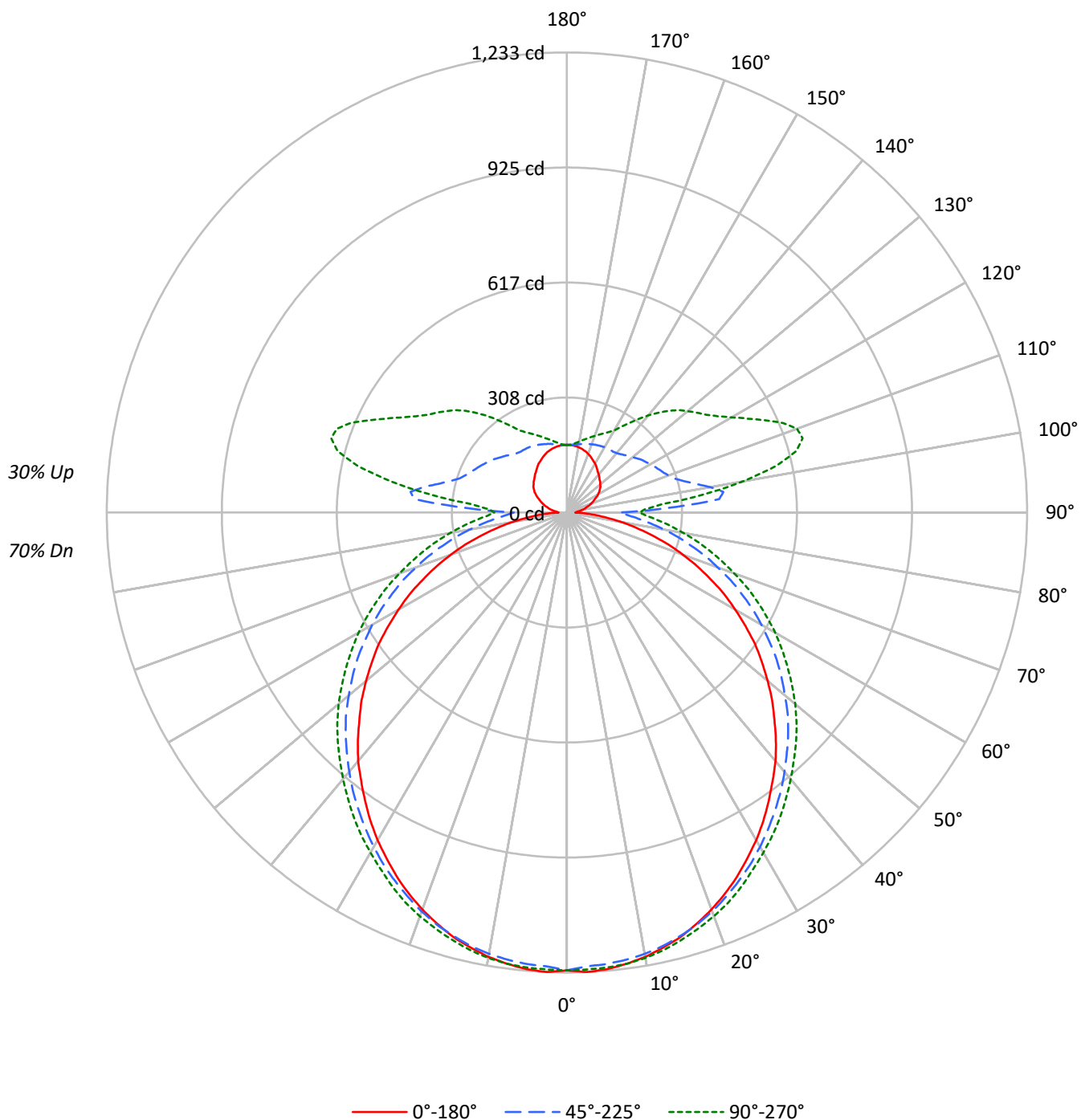
Lumens per Lamp: N/A
Luminaire Lumens: 5505.6 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75
1	101	96	91	87	95	91	87	83	81	78	75	72	70	67	64	62	60
2	91	83	76	70	86	78	72	67	70	65	61	62	59	55	55	52	50
3	83	72	64	58	78	69	61	55	61	55	51	55	50	46	49	45	42
4	76	64	55	49	71	61	53	47	54	48	43	49	43	39	43	39	35
5	69	57	48	41	65	54	46	40	48	42	37	43	38	34	39	34	31
6	64	51	42	36	60	48	40	35	44	37	32	39	34	29	35	30	27
7	59	46	37	31	56	44	36	30	40	33	28	36	30	26	32	27	24
8	55	42	33	28	52	40	32	27	36	30	25	33	27	23	29	25	21
9	51	38	30	25	48	36	29	24	33	27	22	30	25	21	27	22	19
10	48	35	27	22	45	34	26	22	31	24	20	28	22	19	25	21	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10007	10007	10007
5°	10035	9746	9764
10°	9969	9555	9527
15°	9876	9339	9260
20°	9738	9106	9001
25°	9582	8848	8722
30°	9414	8593	8436
35°	9223	8333	8182
40°	9070	8082	7919
45°	8844	7847	7686
50°	8650	7580	7441
55°	8452	7323	7159
60°	8141	7003	6893
65°	7801	6658	6574
70°	7389	6263	6205
75°	6813	5825	5852
80°	6161	5378	5483
85°	5298	4930	5186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	2.1
10°-20°	333.2	6.1
20°-30°	503.7	9.1
30°-40°	609.4	11.1
40°-50°	644.3	11.7
50°-60°	606.3	11.0
60°-70°	503.1	9.1
70°-80°	353.1	6.4
80°-90°	199.8	3.6
90°-100°	253.0	4.6
100°-110°	361.2	6.6
110°-120°	302.6	5.5
120°-130°	237.9	4.3
130°-140°	185.2	3.4
140°-150°	133.3	2.4
150°-160°	91.7	1.7
160°-170°	53.9	1.0
170°-180°	17.5	0.3
0°-30°	953.2	17.3
0°-40°	1562.6	28.4
0°-60°	2813.2	51.1
0°-90°	3869.2	70.3
90°-120°	916.8	16.7
90°-150°	1473.2	26.8
90°-180°	1636.0	29.7
0°-180°	5505.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1229	1224	1215	1226	1224	117
15°	1178	1179	1175	1187	1186	332
25°	1077	1086	1090	1105	1106	496
35°	943	959	973	992	996	590
45°	786	812	838	862	868	608
55°	616	644	686	713	722	549
65°	426	470	517	551	562	422
75°	236	287	345	383	396	251
85°	73	131	192	234	247	76
90°	22	80	142	183	194	16
95°	30	100	409	300	256	27
105°	54	100	324	627	636	58
115°	82	112	273	494	585	81
125°	108	125	246	405	456	96
135°	124	147	218	336	385	96
145°	141	160	204	263	294	89
155°	159	172	198	225	234	73
165°	173	178	190	201	204	49
175°	181	181	182	185	184	17
180°	181	181	181	181	181	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1232.7	1228.6	1217.6	1227.2	1225.8
5°	1228.6	1224.4	1214.8	1225.8	1224.4
7.5°	1220.3	1217.6	1209.3	1221.7	1220.3
10°	1209.3	1208.0	1201.1	1213.4	1212.1
12.5°	1194.2	1194.2	1190.1	1201.1	1201.1
15°	1177.7	1179.1	1175.0	1187.3	1186.0
17.5°	1155.7	1159.9	1158.5	1170.8	1169.5
20°	1132.4	1136.5	1137.9	1151.6	1151.6
22.5°	1106.3	1111.8	1114.5	1128.2	1131.0
25°	1077.4	1085.6	1089.8	1104.9	1106.3
27.5°	1045.8	1058.2	1063.7	1077.4	1078.8
30°	1014.2	1025.2	1034.8	1049.9	1052.7
32.5°	979.8	993.6	1004.6	1022.4	1025.2
35°	942.7	959.2	973.0	992.2	996.3
37.5°	905.6	924.9	941.4	960.6	964.7
40°	869.9	887.8	907.0	927.6	933.1
42.5°	828.7	849.3	872.6	896.0	900.1
45°	786.1	812.2	838.3	861.6	868.5
47.5°	746.2	772.3	802.6	825.9	834.2
50°	702.2	732.5	762.7	790.2	798.4
52.5°	658.3	688.5	724.2	751.7	760.0
55°	615.7	644.5	685.7	713.2	721.5
57.5°	567.6	603.3	643.1	676.1	683.0
60°	520.8	556.6	601.9	633.5	644.5
62.5°	475.5	515.3	560.7	592.3	603.3
65°	426.0	470.0	516.7	551.1	562.1
67.5°	379.3	426.0	475.5	509.8	520.8
70°	331.2	377.9	430.1	467.2	476.9
72.5°	284.5	332.6	388.9	424.6	435.6
75°	236.4	287.2	344.9	383.4	395.8
77.5°	191.0	244.6	305.1	343.6	357.3
80°	149.8	204.8	265.2	306.5	317.4
82.5°	108.6	166.3	226.7	269.4	281.7
85°	72.8	130.6	192.4	233.6	247.4
87.5°	45.3	101.7	162.2	202.0	214.4
90°	22.4	79.8	142.4	183.0	194.4
92.5°	25.6	96.1	267.2	212.4	209.7
95°	29.6	100.2	409.4	300.2	255.8
97.5°	36.1	97.2	422.8	441.4	369.2
100°	42.1	97.0	390.3	546.8	477.3
102.5°	49.2	97.9	353.3	609.1	572.8
105°	54.0	100.2	324.0	627.4	636.3
107.5°	62.2	103.8	302.5	612.5	662.3
110°	69.0	106.1	290.2	575.8	656.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.4	109.8	280.2	532.7	626.9
115°	81.5	112.5	272.6	494.5	584.8
117.5°	89.3	116.0	265.4	461.8	545.0
120°	95.8	118.0	258.5	437.0	509.6
122.5°	102.9	121.2	251.3	419.2	480.1
125°	107.6	125.4	245.5	404.8	456.1
127.5°	113.2	131.8	237.9	389.2	439.4
130°	116.5	136.5	230.6	373.6	422.6
132.5°	121.1	141.9	224.7	356.4	406.0
135°	124.0	147.1	217.6	336.3	385.4
137.5°	128.2	150.3	212.1	316.6	362.6
140°	132.9	154.3	207.5	297.2	339.7
142.5°	136.5	158.0	204.8	280.2	315.8
145°	141.2	160.0	204.1	262.8	293.6
147.5°	146.5	163.2	203.1	247.3	272.5
150°	151.5	166.2	202.0	237.9	253.9
152.5°	154.7	169.1	200.2	231.2	243.2
155°	159.0	171.6	198.4	224.8	234.3
157.5°	163.2	173.9	196.6	218.7	226.2
160°	167.1	175.9	194.5	212.6	218.7
162.5°	170.7	177.4	192.4	206.8	211.6
165°	173.2	178.5	190.2	201.4	204.5
167.5°	176.0	179.4	188.1	196.9	198.8
170°	177.8	180.1	186.0	192.2	193.4
172.5°	179.6	180.6	183.8	188.2	188.1
175°	180.6	181.0	182.4	184.9	184.2
177.5°	181.4	181.0	181.4	182.6	181.4
180°	181.0	181.0	181.0	181.0	181.0

(END OF REPORT)