

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: P1000097

Luminaire Tested: SA2XXRDIP-B865D1080UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000097
REPORT IS A COMBINATION OF REPORTS P988656 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D1080UB50-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

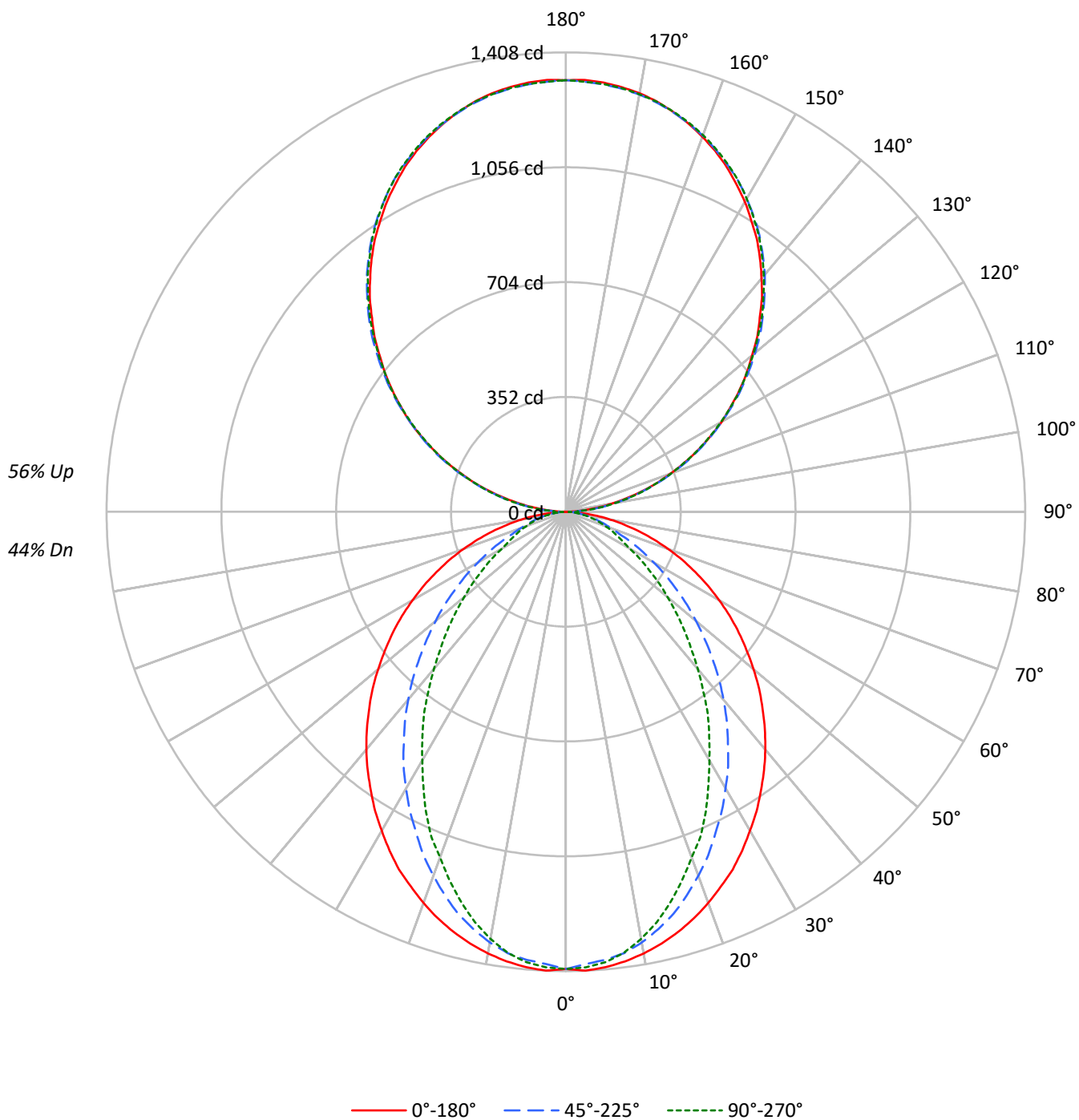
Lumens per Lamp: N/A
Luminaire Lumens: 6584.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	50	50	50
1	97	93	89	86	88	85	82	79	71	68	66	57	56	55	45	44	43
2	88	81	76	71	81	75	70	66	62	59	56	51	48	46	40	39	37
3	81	72	65	59	74	66	60	55	55	51	47	45	42	40	36	34	32
4	74	64	56	51	68	59	52	47	49	45	41	41	37	34	33	30	28
5	68	57	49	44	62	53	46	41	44	39	35	37	33	30	29	27	25
6	63	51	44	38	58	47	41	36	40	35	31	33	29	26	27	24	22
7	58	46	39	33	53	43	36	31	37	31	27	30	26	23	25	22	20
8	54	42	35	30	50	39	32	28	33	28	24	28	24	21	23	20	18
9	50	39	31	26	46	36	29	25	31	26	22	26	22	19	21	18	16
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22182	22182	22182
5°	22218	21103	20947
10°	21999	20016	19354
15°	21696	18731	17540
20°	21297	17270	15642
25°	20886	15770	13905
30°	20337	14311	12008
35°	19797	12840	10380
40°	19249	11394	8702
45°	18612	9901	7239
50°	17954	8462	5894
55°	17267	7025	4679
60°	16471	5617	3539
65°	15553	4283	2877
70°	14443	3107	2289
75°	13051	2371	1748
80°	11034	1605	1173
85°	7698	735	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.0
10°-20°	360.5	5.5
20°-30°	506.2	7.7
30°-40°	551.8	8.4
40°-50°	507.1	7.7
50°-60°	398.3	6.0
60°-70°	259.2	3.9
70°-80°	133.5	2.0
80°-90°	37.8	0.6
90°-100°	81.8	1.2
100°-110°	260.1	4.0
110°-120°	445.1	6.8
120°-130°	585.4	8.9
130°-140°	657.1	10.0
140°-150°	644.4	9.8
150°-160°	540.5	8.2
160°-170°	358.5	5.4
170°-180°	125.3	1.9
0°-30°	998.1	15.2
0°-40°	1549.8	23.5
0°-60°	2455.2	37.3
0°-90°	2885.8	43.8
90°-120°	787.0	12.0
90°-150°	2673.9	40.6
90°-180°	3698.0	56.2
0°-180°	6584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1401	1395	1378	1390	1386	133
15°	1333	1319	1276	1252	1239	376
25°	1210	1169	1086	1034	1014	556
35°	1042	978	866	786	758	652
45°	852	767	634	544	514	658
55°	648	549	412	336	312	579
65°	438	335	221	178	174	434
75°	233	145	102	93	91	247
85°	54	28	24	24	24	63
90°	1	14	39	37	38	6
95°	58	69	71	71	69	65
105°	240	243	246	248	248	253
115°	446	453	451	450	446	442
125°	650	660	656	653	652	581
135°	840	853	855	854	851	650
145°	1020	1028	1035	1036	1031	637
155°	1166	1170	1173	1179	1175	537
165°	1269	1268	1268	1276	1270	358
175°	1320	1317	1315	1323	1316	125
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.3	1401.3	1401.3	1401.3	1401.3
2.5°	1407.7	1401.3	1387.4	1400.1	1397.5
5°	1401.3	1395.0	1378.5	1389.9	1386.1
7.5°	1389.9	1382.3	1364.5	1369.6	1363.3
10°	1374.7	1365.8	1340.5	1336.6	1329.0
12.5°	1355.7	1344.3	1310.0	1302.4	1288.5
15°	1332.8	1318.9	1275.8	1251.7	1239.0
17.5°	1306.2	1285.9	1232.7	1204.8	1184.5
20°	1275.8	1250.4	1187.0	1155.3	1127.4
22.5°	1242.8	1213.6	1140.1	1097.0	1077.9
25°	1209.8	1169.2	1085.5	1033.6	1014.5
27.5°	1170.5	1127.4	1034.8	975.2	946.1
30°	1128.7	1080.5	979.0	914.3	880.1
32.5°	1088.1	1029.8	925.8	849.7	818.0
35°	1042.4	977.8	866.2	786.3	758.4
37.5°	998.0	928.3	810.4	722.9	691.2
40°	951.1	875.0	752.0	662.0	629.0
42.5°	902.9	821.8	693.7	599.8	568.1
45°	852.2	767.2	634.1	544.0	513.6
47.5°	804.0	714.0	577.0	487.0	459.1
50°	750.8	660.7	521.2	433.7	407.1
52.5°	698.8	603.6	468.0	384.3	360.2
55°	648.0	549.1	412.2	336.1	312.0
57.5°	596.0	494.6	362.7	291.7	271.4
60°	542.8	441.3	310.7	246.0	225.7
62.5°	490.8	389.3	266.3	205.4	195.3
65°	437.5	334.8	220.7	177.5	173.7
67.5°	386.8	284.1	177.5	156.0	152.2
70°	333.5	234.6	147.1	134.4	129.4
72.5°	282.8	189.0	123.0	112.9	110.3
75°	233.3	144.6	101.5	92.6	91.3
77.5°	183.9	102.7	79.9	74.8	72.3
80°	138.2	73.6	60.9	55.8	55.8
82.5°	96.4	49.5	41.8	39.3	39.3
85°	54.5	27.9	24.1	24.1	24.1
87.5°	20.3	10.1	10.1	8.9	8.9
90°	1.1	14.5	39.1	36.8	38.0
92.5°	24.6	33.5	34.6	35.7	35.7
95°	58.0	69.2	71.4	71.4	69.2
97.5°	97.1	107.2	111.6	111.6	111.6
100°	141.8	150.7	154.0	154.0	152.9
102.5°	188.6	195.3	199.8	200.9	199.8
105°	240.0	243.3	245.6	247.8	247.8
107.5°	291.3	295.8	295.8	296.9	291.3
110°	340.5	347.2	347.2	347.2	343.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	394.0	400.7	399.6	396.3	394.0
115°	446.5	453.2	451.0	449.9	446.5
117.5°	499.0	507.9	502.3	499.0	495.6
120°	551.4	560.4	551.4	551.4	548.1
122.5°	599.4	610.6	605.0	601.7	599.4
125°	649.7	659.7	656.4	653.0	651.9
127.5°	698.8	711.1	706.6	702.1	698.8
130°	744.6	759.1	756.8	754.6	750.1
132.5°	795.9	807.1	808.2	802.6	799.2
135°	840.5	852.8	855.1	853.9	850.6
137.5°	889.7	899.7	901.9	900.8	896.4
140°	933.2	943.2	948.8	948.8	944.4
142.5°	977.9	987.9	991.2	992.4	987.9
145°	1020.3	1028.1	1034.8	1035.9	1031.4
147.5°	1058.2	1068.3	1072.7	1075.0	1070.5
150°	1097.3	1104.0	1108.5	1111.8	1108.5
152.5°	1131.9	1138.6	1144.2	1148.6	1144.2
155°	1166.5	1169.8	1173.2	1178.8	1175.4
157.5°	1196.6	1198.9	1201.1	1208.9	1203.3
160°	1223.4	1225.7	1226.8	1233.5	1229.0
162.5°	1248.0	1248.0	1249.1	1256.9	1251.3
165°	1269.2	1268.1	1268.1	1275.9	1270.3
167.5°	1288.2	1284.8	1284.8	1292.6	1287.1
170°	1302.7	1299.3	1298.2	1306.0	1299.3
172.5°	1312.7	1309.4	1308.3	1316.1	1309.4
175°	1320.5	1317.2	1315.0	1322.8	1316.1
177.5°	1325.0	1321.7	1319.4	1326.1	1319.4
180°	1322.8	1322.8	1322.8	1322.8	1322.8

(END OF REPORT)